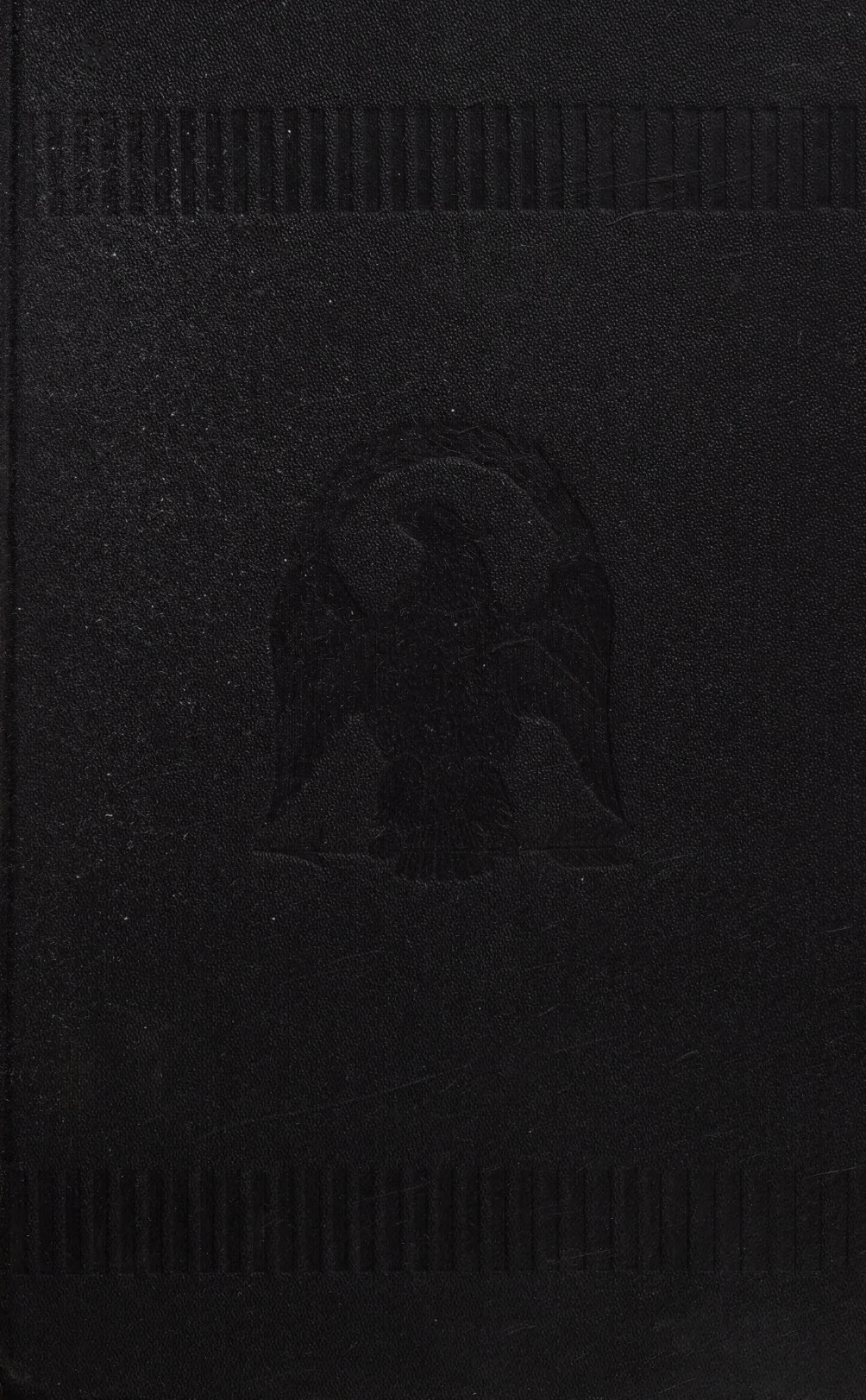

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SPRINGFIELD, ILLS.

TWENTIETH ANNUAL COAL REPORT

OF THE

Illinois Bureau of Labor Statistics

1901

ALSO THE

THIRD ANNUAL REPORT

OF THE

Illinois Free Employment Offices

FOR THE

YEAR ENDED OCT. 1, 1901.

DAVID ROSS, *Secretary*, Springfield.

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STATE OF ILLINOIS,
OFFICE OF THE BUREAU OF LABOR STATISTICS,
SPRINGFIELD, Jan. 1, 1902.

HONORABLE RICHARD YATES, *Governor of Illinois:*

SIR:—I have the honor, on behalf of the Board of Commissioners of Labor, to submit herewith the twentieth annual report of the coal industry of the State for the year ended July 1, 1901, together with the third annual report of the Illinois Free Employment offices.

Very respectfully,

DAVID ROSS,
Secretary.

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TWENTIETH ANNUAL REPORT.

Statistics of Coal in Illinois for the Year Ended June 30, 1901.

For a period of twenty years this bureau, in addition to other reports, has collected, compiled and published statistics relating exclusively to the coal industry of the State.

These reports contain information of a general character concerning the number of mines and men employed; capital invested and wages paid; aggregate product in tons and value; systems of mining and conditions of employment, and while probably not absolutely accurate in all details, a defect chargeable more to those furnishing than to those compiling the returns, they afford nevertheless a fairly correct and comprehensive history of the development of our mining industry.

Fortunately for those personally and financially interested in this line of business, no successful substitute has been found to take the place of coal as a generator of power. While commerce relies upon this medium for movement, the quantity consumed can be safely accepted as a standard by which to measure a country's progress and prosperity.

The growth of mining interests has more than kept pace with the extension of other industries.

During the past few years the output of the coal mines of the United States has exceeded that of Great Britian. Distanced in the industrial race by the product of our mills, necessity compels her to accept second place in the important matter of coal production. There has not only been an enormous increase in domestic consumption, consequent upon our industrial revival, but a stronger foreign demand for American coal.

This is reflected in recent increased exportations. Late reports from our consuls indicate a decided preference at many European points for American coal and that the prospects for extending our trade in those countries is most encouraging.

The coal supply of this country is almost inexhaustible, easy of access, and the facilities for its production and transportation so perfect that it is now possible to place American mined coal in the markets of the Old World at a price less than the cost of production there. That old maxim "Carrying coals to New Castle" intended to express the very acme of absurdity, may yet turn out to be true.

From a standpoint of State pride, it is gratifying to know that, in this now the greatest coal producing country in the world, Illinois stands second only to Pennsylvania in the volume of its annual output.

Prior to the establishment of the State mine inspection service in 1883, the bureau was compelled to rely on the reports submitted by county inspectors of mines, appointed by boards of supervisors. This service proved very unsatisfactory and hastened the enactment of a law dividing the State into several inspection districts and providing for the appointment of State Inspectors of Mines.

The first report prepared from returns made by the State Inspectors appeared in 1884. At that time the total output from 741 mines was little more than 12,000,000 tons, and the number employed 25,595. The present report gives 915 as the number of openings of all kinds, 44,143 as the total employés, with an aggregate product of 26,635,319 tons. The record for the present year is, in many respects, the most notable in the history of the industry. Not only does it exceed all others in the aggregate tonnage, but for the first time in a long period, there has been no interruption in business resulting from local strikes or disagreements. This gratifying situation indicates that the joint contract between miners and operators has been strictly and faithfully observed.

The more salient features developed by the year's work appear in the following general summary:

SUMMARY FOR THE YEAR ENDED JUNE 30, 1901.

Number of counties producing coal	53
Number of mines and openings of all kinds	915
New mines or old mines reopened during the year	138
Mines closed or abandoned since last report	143

Total output of all mines in tons of 2,000 pounds	26,635,319
Number of shipping mines	331
Total output of shipping mines, tons	25,526,816
Number of mines in local trade only	584
Output of local mines, tons	1,108,503
Total tons of lump coal	13,321,124
Total tons of other grades	13,314,195
Total tons shipped	22,551,219
Tons supplied to locomotives at the mines	946,692
Tons sold to local trade	2,012,475
Tons consumed (or wasted) at the plant	1,124,933
Average days of active operation for shipping mines	204.7
Average days of active operation for all mines	174.3
Average value per ton, all grades, at the mines	$0.9543
Average value per ton of lump coal at the mines	$1.181
Average value per ton of other grades	$0.7316
Aggregate home value of total product	$25,418,983
Number of mines in which mining machines are used	63
Number of mining machines in use	464
Number of tons undercut by machines	5,774,639
Number of tons mined by hand	20,860,680
Average number of miners employed during the year	30,829
Average number of other employés	13,314
Total employés	44,143
Number of men at work under ground	39,750
Number at work on surface	4,393
Average price paid per gross ton for hand mining	$0.564
Average price paid per gross ton for machine mining	$0.4125
Number of kegs of blasting powder used	551,084
Number of men accidentally killed	100
Number of wives made widows	55
Number of children left fatherless	139
Number of men injured so as to lose a month or more of time	422
Number of gross tons mined to each life lost	263,716
Number of employés to each life lost	437
Number of gross tons mined to each man injured	63,117
Number of employés to each man injured	105
Number of mines using steam boilers	416
Number of steam boilers in use at the mines	1,130

The total output of the 915 openings of all kinds was 26,635,319 tons, being an increase of 1,481,390 tons compared with the year previous. The total increase in the number of all classes of employés was 4,759, which is considerably above the average of past reports. Average days of active operation for shipping mines, 204—a decrease of ten days compared with that shown for 1900, while for all

mines the number of days have decreased from 182 to 174. That a material increase in the aggregate product should accompany a reduction, not only in the number of days but also in the length of the day as formerly computed, attests the superior equipment and management of our mines.

As noted in former reports, while the shipping mines represent but about one-third of the entire number of openings, their output is equal to 96 per cent of the total product.

The average price per gross ton for hand mining increased from $0.4931 to $0.564, with a similar advance in the rate for machine mined coal. The report shows that 464 machines were in use in the State producing 5,774,639 tons, an increase of 191,045 tons over last year.

For the first time since the Diamond disaster at Braidwood in 1883 the number of fatal accidents for the State has reached 100. Notwithstanding this heavy loss for the year, the ratio, considered either as to tons produced or men employed, is less than for the two years previous.

The fourth and sixth districts report the greatest number of fatal accidents, 21 and 22 respectively. Reference to the table, showing the cause of accidents, indicates that 56 per cent of the lives lost was occasioned by falling coal and rock, presumably at or near the working face. The proportion of deaths from other causes is about the same as formerly reported.

The following tables present, in detail, a complete record of the year's business:

Classification of Mines.

Table I.—*Mines, Men and Tons of Shipping and Local Mines, by Districts.*

District.	Total.			Shipping.			Local.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First	80	7,872	3,568,198	39	7,571	3,449,724	41	301	118,474
Second	187	6,306	2,770,413	26	5,364	2,476,066	161	942	294,347
Third	225	3,760	1,985,205	53	2,973	1,706,875	172	787	278,330
Fourth	81	6,950	3,253,160	33	6,501	3,079,174	48	449	173,986
Fifth	102	6,837	5,416,504	46	6,586	5,343,191	56	251	73,313
Sixth	110	6,871	5,796,586	77	6,677	5,717,582	33	194	79,004
Seventh	130	5,547	3,845,253	57	5,254	3,754,204	73	293	91,049
The State.	915	44,143	26,635,319	331	40,926	25,526,816	584	3,217	1,108,503

There were eight more shipping mines and 13 less local mines than reported last year. The principal increase in the output naturally comes from the shipping mines.

Men employed and tons produced is shown by percentages in the following table:

TABLE II.—*Percentages of Shipping and Local Mines, by Districts.*

DISTRICT.	SHIPPING.			LOCAL.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First	48.75	96.18	96.68	51.25	3.82	3.32
Second	13.90	85.06	89.38	86.10	19.90	10.62
Third	23.56	79.07	85.98	76.44	20.93	14.02
Fourth	40.74	93.54	94.65	59.26	6.46	5.35
Fifth	45.10	96.33	98.65	54.90	3.67	1.35
Sixth	70.00	97.18	98.64	30.00	2.82	1.36
Seventh	43.85	94.72	97.63	56.15	5.28	2.37
The State	36.17	92.71	95.84	63.83	7.29	4.16

The relation between these classes of mines vary but little from year to year. It will be observed that in the case of the shipping mines 36 per cent employ 93 per cent of the men and furnish 96 per cent of the product.

In the following table the mines of the State are classified according to number and product, by districts:

TABLE III.—*Grouping of Mines by Output and Districts.*

DISTRICT.	MINES PRODUCING—											
	Under 10,000 tons.		10,000 and under 50,000 tons.		50,000 and under 100,000 tons.		100,000 and under 200,000 tons.		200,000 tons and over.		Total.	
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
First	47	107,372	11	346,293	6	489,011	12	1,607,020	4	1,018,502	80	3,568,198
Second	168	274,804	6	100,380	3	211,494	5	847,310	5	1,336,425	187	2,770,413
Third	178	266,139	35	790,664	10	679,396	2	249,006	....	.....	225	1,985,205
Fourth	48	120,613	11	233,777	13	1,013,563	4	612,607	5	1,272,600	81	3,253,160
Fifth	59	76,734	4	100,448	15	1,184,718	16	2,102,061	8	1,952,543	102	5,416,504
Sixth	39	105,754	33	1,138,736	20	1,365,237	11	1,447,301	7	1,739,558	110	5,796,586
Seventh	82	114,992	24	683,529	12	852,534	8	1,143,592	4	1,050,606	130	3,845,253
The State	621	1,066,408	124	3,393,827	79	5,795,953	58	8,008,897	33	8,370,234	915	26,635,319

Compared with last year there are 14 mines less in the first group, one more in the second, nine more in the third, seven less in the fourth and six more in the fifth.

The six additional mines in the group producing 200,000 tons and over contribute nearly 2,000,000 tons to the total output.

TABLE IV.—*Specified Classes of Mines with Percentages of Total Number and Total Output.*

MINES PRODUCING—	No.	Output.	PERCENTAGES.	
			No.	Tonnage
Less than 1,000 tons	313	227,419	34.21	0.85
One thousand and less than 10,000 tons	308	838,989	33.66	3.15
Ten thousand and less than 50,000 tons	124	3,393,827	13.55	12.74
Fifty thousand and less than 100,000 tons	79	5,795,953	8.63	21.77
One hundred thousand and less than 200,000 tons	58	8,008,897	6.34	30.07
Two hundred thousand tons and over	33	8,370,234	3.61	31.42
Totals	915	26,635,319	100.00	100.00

This table gives the classification of mines with percentages. The most notable feature brought out is the increase in the mines producing over 200,000 tons; these mines are only 4 per cent of the total number, but produced 31 per cent of the output.

The following table indicates the number of mines in the State which, for a series of years, have been found in each of these classes, with percentages in each class:

TABLE V.—*Number of Mines in Specified Groups of Tonnage for a Series of Nineteen Years.*

YEAR.	NUMBER OF MINES PRODUCING—						Total mines.
	Under 1,000 tons.	1,000 and under 10,000 tons.	10,000 and under 50,000 tons.	50,000 and under 100,000 tons.	100,000 and under 200,000 tons.	200,000 tons and over.	
1883	209	233	133	39	10	15	639
1884	262	273	148	38	16	4	741
1885	286	290	143	40	18	1	778
1886	316	280	135	44	11	3	789
1887	320	278	141	42	18	2	801
1888	327	272	151	47	20	5	822
1889	321	316	139	55	20	3	854
1890	398	301	155	54	24	4	936
1891	403	260	161	52	37	6	918
1892	332	239	151	65	46	6	839
1893	282	232	140	75	47	12	788
1894	312	252	161	61	44	6	836
1895	319	276	145	61	45	9	855
1896	330	280	128	63	45	16	862
1897	346	250	120	79	41	17	853
1898	351	244	151	86	42	7	881
1899	346	261	123	78	56	25	889
1900	340	295	123	70	65	27	920
1901	313	308	124	79	58	33	915
Averages ...	322	270	141	59	35	11	838
Percentages	34.21	33.66	13.55	8.63	6.34	3.61	100.00
Percentages....							
1900	36.95	32.07	15.37	7.61	7.07	2.93	100.00
1899	38.92	29.36	13.84	8.77	6.30	2.81	100.00
1898	39.84	27.70	17.14	9.76	4.77	0.79	100.00
1897	40.56	29.31	14.07	9.26	4.81	1.99	100.00
1896	38.28	32.48	14.85	7.31	5.22	1.86	100.00
1895	37.31	32.28	16.96	7.14	5.26	1.05	100.00
1894	37.32	30.14	19.26	7.30	5.26	0.72	100.00
1893	35.79	29.44	17.77	9.52	5.96	1.52	100.00
1892	39.57	28.49	18.00	7.75	5.48	0.71	100.00

The table following gives the names and locations of the 58 mines classified in the fifth group in the preceding table:

TABLE VI.—*Mines from which more than 100,000 tons of coal and less than 200,000 tons have been delivered during the year 1901.*

Rank.	Companies.	Location.	Tons.
1	Big Muddy Coal & Iron Co	Murphysboro	197,880
2	Black Diamond Coal & Tile Co.	Springfield	196,385
3	Himrod Coal Co	Westville	194,660
4	Chicago, Wilmington & Vermilion Coal Co	Seatonville	193,801
5	Western Anthracite Coal & Coke Co.	Sparta	190,047
6	Odin Coal Co.	Odin	187,851
7	Marquette 3rd Vein Coal Co	Marquette	184,705
8	Catlin Coal Co	Catlin	179,829
9	Empire Coal Co.	Gilchrist	166,120
10	LaSalle Co. Carbon Coal Co	LaSalle	163,031
11	Capitol Coöperative Coal Co. No. 2.	Springfield	162,137
12	Consolidated Coal Co. Abby No. 3.	Collinsville	159,460
13	Coal Valley Mining Co.	Sherrard	158,598
14	Southern Illinois C. M. & W. Co	Marion	154,108
15	LaSalle Co. Carbon Coal Co	LaSalle	153,655
16	LaSalle Co. Carbon Coal Co	LaSalle	151,308
17	Consolidated Coal Co. Abby No. 3.	Collinsville	148,990
18	Virden Coal Co	Virden	147,850
19	Greenridge Mining Co	Girard	146,431
20	Carterville Coal Co.	Carterville	144,394
21	Alden Coal Co.	Wanlock	144,086
22	Braceville Coal Co.	Braceville	143,776
23	Star Coal Co	Streator	143,562
24	Big Four Coal Co.	Coal City	143,242
25	Donk Bros. Coal & Coke Co	Collinsville	140,180
26	Montgomery Coal Co.	Paisley	139,900
27	Greenview Coal Co.	Dunfermline	137,331
28	Sangamon Coal Co	Springfield	134,705
29	Consolidated Coal Co.	Breese	134,652
30	Starnes Coal Mining Co.	Springfield	133,981
31	Cardiff Coal Co	Cardiff	132,847
32	West End Coal Co.	Springfield	132,470
33	Willis Coal & Mining Co.	Willisville	131,276
34	McLean Co. Coal Co.	Bloomington	125,000
35	Muren Coal & Ice Co	New Baden	122,000

Table VI.—Concluded.

Rank.	Companies.	Location.	Tons.
36	Emerson Hakes	Streator	120,900
37	Jones & Adams Coal Co	Springfield	120,637
38	Muren Coal & Ice Co. No. 1	Belleville	120,000
39	Madison Coal Co. No. 6	Divernon	118,920
40	Davenport Coal Co	Ledford	118,454
41	Oglesby Coal Co	Streator	117,843
42	Acme Coal Co	Streator	117,224
43	Black Diamond Coal & T. Co	Springfield	116,451
44	Republic Iron & Steel Co	Ridgely	115,351
45	Springfield Coöperative Coal Co	Springfield	115,000
46	Economy Coal Co	Danville	113,118
47	Sandoval Coal Co	Sandoval	113,107
48	Star Coal Co	Carbon Hill	112,718
49	Chicago-Virden Coal Co	Chatham	111,700
50	Greenview Coal Co	Greenview	111,675
51	Kolb Coal Co	Mascoutah	110,416
52	Hillsboro Coal Co.	Hillsboro	110,056
53	Trenton Coal	Trenton	107,699
54	LaSalle Co. Coal Co	LaSalle	106,914
55	New Ohio Washing Coal Co	Carterville	105,622
56	Crown Coal & Tow Co	Belleville	102,946
57	Southern Illinois C. M. & W. Co	Marion	101,811
58	Woodside Coal Co	Springfield	100,087
	Total tons		8,008,897

The above list contains seven mines less than reported last year, with a reduced output amounting to 987,066 tons.

In the following table will be found the names and location of the mines in the sixth group of Table V, giving tonnage, days in operation, depth of mines, thickness of seam and method of working. As be-

fore noted, this class is increased over last year by six mines and nearly 2,000,000 tons of coal:

TABLE VII.—*Mines from which more than 200,000 Tons of Coal have been delivered during the year 1901.*

Rank.	Companies.	Location.	Days in operation.	Depth of mine.	Thickness of seam.	Manner of working.	Tons.
1	Spring Valley Coal Co. No. 1	Spring Valley	271	345	3.6	H.	337,156
2	Staunton Coal Co. No. 1	Staunton	252	292	7	M.	327,449
3	Kellyville Coal Co., Mine No. 3	Westville	212	212	7	H.	320,821
4	Chicago-Virden Coal Co. No. 1	Virden	244	320	7.6	M.	313,228
5	Spring Valley Coal Co. No. 2	Spring Valley	242	342	3.6	H.	311,456
6	Big Muddy Coal & Iron Co	Herrin	245	140	9	H.	310,214
7	C., W. & V. Coal Co	Streator	251	96	8	H.	298,790
8	Big Muddy Coal & Iron Co. No. 6	Murphysboro.	263	150	6.6	H.	275,442
9	C., W. & V. Coal Co	Streator	242	116	6	H.	275,400
10	Madison Coal Co. No. 2	Glen Carbon	248	110	6.6	M.	270,956
11	Pittenger & Davis Mining & Mfg. Co	Centralia	256	637	6	H.	270,846
12	Spring Valley Coal Co. No. 3	Spring Valley	238	481	3.6	H.	267,941
13	Kelleyville Coal Co., Mine No. 2	Westville	189	210	7	H.	258,518
14	Chicago-Virden Coal Co. No. 2	Auburn	216	280	7.6	H.	254,533
15	Consolidated Coal Co. No. 6	Staunton	230	322	6	M.	251,525
16	Riverton Coal Co. No. 2	Riverton	225	232	5.9	H.	248,597
17	St. Louis Big Muddy Coal Co	Carterville	240	90	9	H.	244,470
18	Himrod Coal Co	Himrod	178	170	8	H.	244,443
19	Madison Coal Co. No. 5	Mt. Olive	227	435	8	M.	242,846
20	Westville Coal Co	Westville	191	210	7	H.	237,478
21	Madison Coal Co. No. 4	Glen Carbon	242	130	6.6	M.	236,376
22	Wilmington C. M. Mfg. Co	Diamond	257	105	3	H.	223,583
23	Consolidated Coal Co. No. 7	Staunton	233	360	6.8	M.	223,177
24	C., W. & V Coal Co	So. Wilm'gton	201	195	3.5	H.	220,729
25	Muddy Valley Mining & Mfg. Co	Hallidayboro.	241	165	8	H.	220,480
26	Centralia Mining & Mfg. Co	Centralia	249	576	6	H.	*218,798
27	Consolidated Coal Co. No. 8	Mt. Olive	217	410	8	M.	218,297
28	Devlin Coal Co	Toluca	275	512	2.9	H.	215,908
29	Taylorville Coal Co	Taylorville	213	462	8	H.	211,340
30	Sorento P. & Mfg. Co	Sorento	226	380	7.6	H.	†208,668
31	Breese Coal Co	Breese	240	400	7.6	H.	206,465
32	White Breast Fuel Co	Ladd	245	465	3.6	H.	203,964
33	Consolidated Coal Co. No. 10	Mt. Olive	209	432	8	M.	200,340
	Total						8,370,234

* 84,748 tons machine mined. † 112,129 tons machine mined.

There are six mines in this group reporting a product of over 300,000 tons. Spring Valley Coal Company No. 1 heads the list with 337,156 tons. The mines in this class represent every coal section in the State—north, east, south and central. The thickness of the seam varies from three to nine feet, and the depth from 90 at Carterville to 637 at Centralia. The number of days of active operation vary from 178, Himrod Coal Co., Himrod, to 275, Devilin Coal Co., Toluca.

The following table shows the gains and losses in the number of mines in the different inspection districts and for the State:

TABLE VIII.—*Gain and Loss in Number of Mines, 1900–1901, by Districts.*

District.	Total number of mines, 1900.	Number of new mines opened, 1901.	Total.	Number abandon'd mines, 1901.	Total number of mines, 1901.	YEAR 1901.	
						Gain.	Loss.
First	84	9	93	13	80	.....	4
Second	189	30	219	32	187	.....	2
Third	233	42	275	50	225	.....	8
Fourth	84	9	93	12	81	.....	3
Fifth	101	18	119	17	102	1	.....
Sixth	102	10	112	2	110	8	.....
Seventh	127	20	147	17	130	3	.....
The State	920	138	1,058	143	915	12	17

The Output of the State.

The aggregate tonnage of the State, separating the different grades of coal, appear by districts in the table following:

Table IX.—*Output of the State with the Different Grades of Coal, by Districts, 1901.*

District.	Total output—tons.	Tons of the Different Grades of Coal.					
		Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Slack or waste.
First	3,568,198	2,384,343	242,795	45,870	100,331	734,938	59,921
Second	2,770,413	1,932,918	255,523	24,387	75,864	260,377	221,344
Third	1,985,205	1,172,376	437,956	2,634	98,658	185,119	88,462
Fourth	3,253,160	995,415	1,751,321	24,532	183,693	188,801	109,398
Fifth	5,416,504	2,462,076	1,587,480	75,377	208,966	863,561	228,044
Sixth	5,796,586	3,114,341	1,338,891	37,438	259,310	865,118	181,488
Seventh	3,845,253	1,259,655	1,277,774	276,358	290,305	569,677	171,488
The State	26,635,319	13,321,124	6,882,740	486,596	1,217,127	3,667,591	1,060,141

The only notable change in this presentation from that of last year is the increase in the tonnage of pea coal or screenings, which is 756,071 tons; this is mainly in the first, fifth and sixth districts.

The same data is presented in the form of percentages in the following table:

Table X.—*Percentages of the Output of the Different Grades of Coal, by Districts—1901.*

District.	Total Tons.	Percentages of the Different Grades of Coal.					
		Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Slack or waste.
First	3,568,198	66.82	6.80	1.29	2.81	20.60	1.68
Second	2,770,413	69.77	9.22	.88	2.74	9.40	7.99
Third	1,985,205	59.05	22.07	.13	4.97	9.32	4.46
Fourth	3,253,160	30.60	53.84	.75	5.65	5.80	3.36
Fifth	5,416,504	45.46	29.14	1.39	3.86	15.94	4.21
Sixth	5,796,586	53.73	23.10	.65	4.47	14.92	3.13
Seventh	3,845,253	32.76	33.23	7.19	7.55	14.81	4.46
The State	26,635,319	50.01	25.84	1.83	4.57	13.77	3.98

According to this division one-half of the entire output is lump, 26 per cent mine run, 14 per cent pea or screening, and the balance egg, nut and slack. This classification into the various commercial grades, made for the first time last year, reduces the percentage of lump coal as heretofore computed and reported. The first district reports the least percentage of slack or waste, 1.68. The second, the greatest percentage of lump and waste, while in the fourth 54 per cent is returned as mine run. The general average of slack or waste for the State is slightly less than for the year 1900. The figures here given would seem to discredit the claim that the general adoption of the gross weight system operates to increase the per cent of slack or waste.

A comparison of the output for the past three years will be found in the following table, by districts, showing gain or loss in tonnage:

TABLE XI.—*Output for the years 1899, 1900 and 1901, Compared by Districts.*

DISTRICT.	TOTAL OUTPUT—TONS.			Gain (+) or loss (—) 1900.	Gain (+) or loss (—) 1901.
	1899.	1900.	1901.		
First	3,535,316	3,702,049	3,568,198	+166,733	—133,851
Second	3,326,000	2,453,363	2,770,413	—872,637	+317,050
Third	729,132	1,997,173	1,985,205	+1,268,041	—11,968
Fourth	3,357,737	3,533,331	3,253,160	+175,594	—280,171
Fifth	4,810,626	4,816,452	5,416,504	+5,826	+600,052
Sixth	4,283,258	5,235,152	5,796,586	+951,894	+561,434
Seventh	3,392,376	3,416,409	3,845,253	+24,033	+428,844
The State	23,434,445	25,153,929	26,635,319	+1,719,484	+1,481,390

In 1900 all the districts, except the second, show a gain over 1899; this year the gain over last is confined to the second, fifth, sixth and seventh districts.

The following table shows the annual output, also lump and other grades, for each of the years for which a record has been made by the Bureau. This year the output is evenly divided between lump coal and other grades:

TABLE XII.—*Output of the State for Twenty Years.*

YEAR.	Total output. (Tons.)	Tons of lump.	Tons of other grades.	PERCENTAGE OF—	
				Lump.	Other grades.
1882	11,017,069	9,115,653	1,901,506	.....	.....
1883	12,123,456	10,030,991	2,092,465	.....	.....
1884	12,208,075	10,101,005	2,107,070	.....	.....
1885	11,834,459	9,791,874	2,402,585	.....	.....
1886	11,175,241	9,246,435	1,928,806	.....	.....
1887	12,423,066	10,278,890	2,144,176	.....	.....
1888	14,328,181	11,855,188	2,472,993	.....	.....
1889	14,017,298	11,597,963	2,419,335	.....	.....
1890	15,274,727	12,638,364	2,636,363	82.74	17.26
1891	15,660,698	12,960,224	2,700,474	82.76	17.24
1892	17,862,276	14,730,963	3,131,313	82.47	17.53
1893	19,949,564	16,112,899	3,836,665	80.77	19.23
1894	17,113,576	13,865,284	3,248,292	81.02	18.98
1895	17,735,864	14,045,962	3,689,902	79.25	20.75
1896	19,786,626	14,210,024	5,576,602	71.86	28.14
1897	20,072,758	14,672,241	5,400,517	73.10	26 90
1898	18,599,299	14,208,795	4,390,504	76.39	23.61
1899	23,434,445	17,427,598	6,006,847	74.37	25.63
1900	25,153,929	13,927,899	11,226,030	44.63	55.37
1901	26,635,319	13,321,124	13,314,195	50.01	49.99

The annual tonnage, the number of mines, and the number of men engaged in the industry for each of a series of years, is presented in the following table:

TABLE XIII.—*Output of the State for Twenty Years, and the Mines and Men Producing the Same.*

Year.	Mines.	Men.	Tons.	Year.	Mines.	Men.	Tons.
1882	704	20,290	11,017,069	1893	788	35,390	19,949,564
1883	639	23,939	12,123,456	1894	836	38,477	17,113,576
1884	741	25,575	12,208,075	1895	874	38,630	17,735,864
1885	778	25,946	11,834,459	1896	901	37,057	19,786,626
1886	787	25,846	11,175,241	1897	853	33,788	20,072,758
1887	801	26,804	12,423,066	1898	881	35,026	18,599,299
1888	822	29,410	14,328,181	1899	889	36,991	23,434,445
1889	854	30,076	14,017,298	1900	920	39,384	25,153,929
1890	936	28,574	15,274,727	1901	915	44,143	26,635,319
1891	918	32,951	15,660,698	20 years	.....	.....	335,605,926
1892	839	33,632	17,062,276				

HAULAGE IN THE MINES.

The following table indicates the method of haulage in the mines, by districts:

TABLE XIV.—*Haulage of Coal in the Mines of the State, by Districts.*

District.	By Electricity.		By Cable.		By Horse.		By Hand.	
	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.
First	1	275,400	2	286,804	77	3,005,994	.....	.....
Second	.....	.....	4	448,573	17	2,030,403	166	291,437
Third	1	111,675	2	140,479	117	1,362,927	105	370,124
Fourth	2	438,347	8	1,033,274	64	1,753,489	7	28,050
Fifth	3	378,062	4	611,006	49	4,378,929	49	48,597
Sixth	.....	.....	.....	.....	111	*5,796,586	.....	.....
Seventh	5	878,893	1	220,480	110	2,740,190	14	5,690
The State	12	2,082,377	21	2,740,616	545	21,068,518	341	743,808

* 677,495 tons were hauled by electricity.

The number of mines in which electricity is used has increased from seven to twelve; the increase in tons hauled is 750,798; the number employing the cable method has decreased from 27 to 21; although the tons hauled in this manner increased over 13 per cent.

Output by Counties.

Counties producing over half a million tons ranking as to their output for the years 1900 and 1901 appear in the following:

Table XV.—*Relative rank of the counties of the State producing 500,000 tons or over, 1900 and 1901.*

Rank.	County—1901.	Tons.	Rank.	County—1900.	Tons.
1	Sangamon	2,919,223	1	Sangamon	2,519,911
2	St. Clair	2,518,847	2	St. Clair	2,253,883
3	Macoupin	2,115,319	3	Vermilion	2,030,954
4	Vermilion	2,003,780	4	LaSalle	2,027,864
5	LaSalle	1,833,561	5	Macoupin	1,848,796
6	Williamson	1,605,960	6	Madison	1,441,650
7	Madison	1,595,081	7	Bureau	1,338,231
8	Bureau	1,549,056	8	Grundy	1,299,863
9	Grundy	1,293,092	9	Williamson	1,133,607
10	Jackson	911,245	10	Jackson	883,311
11	Marion	829,326	11	Marion	840,814
12	Peoria	710,582	12	Peoria	727,737
13	Perry	664,278	13	Perry	680,653
14	Fulton	646,400	14	Fulton	665,439
15	Clinton	644,664	15	Christian	652,662
16	Christian	578,482	16	Clinton	535,601
17	Mercer	563,603	17	Mercer	501,065
	Total	22,982,499		Total	21,383,041

Sangamon county heads the list with the greatest relative gain for the year. Williamson county, which was ninth in the group last year, is now the sixth, taking the place of Madison. Macoupin county takes the place held last year by Vermilion county. The difference in the totals for the periods here compared, represent in this classification of counties substantially the entire increase in the product for the year.

The following table presents, in alphabetical order, a list of all the coal producing counties of the State, together with the number of mines, men and tons reported for each:

TABLE XVI.—*Coal Producing Counties of the State, Giving Number of District, Mines, Men and Tons.*

County.	Dist.	Mines.	Men.	Tons.	County.	Dist.	Mines.	Men	Tons.
Bond	6	1	242	208,668	Marshall	2	18	852	386,334
Brown	5	10	14	1,950	McDonough	3	46	259	51,042
Bureau	2	20	3,621	1,549,056	McLean	4	4	411	167,759
Calhoun	5	1	22	5,204	Menard	3	12	614	393,777
Cass	3	2	9	2,450	Mercer	2	18	958	563,603
Christian	4	6	995	578,482	Montgomery	5	5	590	328,251
Clinton	6	6	790	644,664	Morgan	5	2	13	3,047
Fulton	3	64	1,301	646,400	Peoria	3	63	1,191	710,582
Gallatin	7	11	87	21,414	Perry	7	21	1,304	664,278
Green	5	13	48	13,233	Randolph	7	14	629	413,549
Grundy	1	23	3,200	1,293,092	Rock Island	2	18	185	63,399
Hamilton	7	2	9	840	Saline	7	15	231	148,701
Hancock	3	5	28	4,655	Sangamon	5	30	3,700	2,919,223
Henry	2	34	270	83,535	Schuyler	3	18	63	14,690
Jackson	7	26	1,029	911,245	Scott	5	11	72	27,486
Jefferson	7	2	77	35,427	Shelby	4	8	212	116,100
Jersey	5	10	20	2,791	Stark	2	22	191	26,524
Johnson	7	4	23	4,209	St. Clair	6	67	2,805	2,518,847
Kankakee	1	2	212	86,745	Tazewell	3	15	295	161,609
Knox	2	39	244	78,362	Vermilion	4	55	4,276	2,003,780
LaSalle	1	35	3,724	1,833,561	Wabash	7	3	20	3,792
Livingston	1	16	533	294,824	Warren	2	18	75	19,600
Logan	4	3	292	162,091	Washington	7	3	96	35,838
Macon	4	3	335	89,370	Will	1	4	183	59,976
Macoupin	5	20	2,358	2,115,319	Williamson	7	29	2,042	1,605,960
Madison	6	30	2,015	1,595,081	Woodford	4	2	429	135,578
Marion	6	6	1,019	829,326					
53 counties	.....	.....	.....	.....	.....	.....	915	44,143	26,635,319

Vermilion county with 55 mines, being three less than reported last year, furnishes employment to the greatest number of men, 4,276, followed by LaSalle, Sangamon, Bureau and Grundy, each employing more than 3,000 men.

Disposition of the Total Output.

The manner in which the year's product has been disposed of is given in the following table:

Table XVII.—*Disposition of the Total Output, by Districts.*

District.	Total output of all grades. Tons.	Tons shipped from mines.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons used and wasted at the mines.
First	3,568,198	2,987,085	95,953	316,469	168,691
Second	2,770,413	2,298,793	54,974	322,077	94,569
Third	1,985,205	1,567,596	35,161	321,720	60,728
Fourth	3,253,160	2,615,682	135,500	360,701	141,277
Fifth	5,416,504	4,701,972	202,618	305,657	206,257
Sixth	5,796,586	4,940,727	274,299	255,058	326,502
Seventh	3,845,253	3,439,364	148,187	130,793	126,909
The State	26,635,319	22,551,219	946,692	2,012,475	1,124,933

With the exception of a slight reduction in the number of tons sold to the local trade, the disposition, allowing for the increase for the year, differs but little from the last report. Reduced to percentages the same data is presented herewith:

Table XVIII.—*Total Output of Mines with Percentages of its Distribution, by Districts.*

District.	Total output.	Percentages of—			
		Tons shipped.	Tons supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed or wasted at the mines.
First	3,568,198	83.72	2.69	8.87	4.72
Second	2,770,413	82.98	1.98	11.63	3.41
Third	1,985,205	78.96	1.77	16.21	3.06
Fourth	3,253,160	80.40	4.17	11.09	4.34
Fifth	5,416,504	86.81	3.74	5.64	3.81
Sixth	5,796,586	85.24	4.73	4.40	5.63
Seventh	3,845,253	89.45	3.85	3.40	3.30
The State	26,635,319	84.66	3.56	7.56	4.22

Compared with last year these percentages show an increase of 1 per cent in the tons shipped, and a like decrease in tons supplied to the local trade.

The mines in the seventh district shipped the largest per cent of their output, followed respectively by those of the fifth, sixth, first, second, fourth and third.

The distribution of the product is shown by counties and districts in the following table:

TABLE XIX.—*Disposition of Output by Counties and Districts.*

FIRST DISTRICT.

County.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines	Tons sold to local trade.	Tons consumed or wasted at the mines.
Grundy	1,293,092	1,195,375	.....	44,207	55,510
Kankakee	86,745	75,862	.....	4,543	6,340
LaSalle	1,833,561	1,478,521	83,079	186,529	85,432
Livingston	294,824	193,587	12,874	67,084	21,279
Will	59,976	43,740	.....	14,106	2,130
The district	3,568,198	2,987,085	95,953	316,469	168,691
Percentages	100.00	83.72	2.69	8.87	4.72

SECOND DISTRICT.

County.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines	Tons sold to local trade.	Tons consumed or wasted at the mines.
Bureau	1,549,056	1,419,620	25,285	51,548	52,603
Henry	83,535	7,354	.....	72,754	3,427
Knox	78,362	25,072	650	51,930	710
Marshall	386,334	325,062	26,093	21,611	13,568
Mercer	563,603	511,441	2,946	27,175	22,041
Rock Island	63,399	10,244	.....	51,515	1,640
Stark	26,524	.....	.....	26,204	320
Warren	19,600	.....	.....	19,340	260
The district	2,770,413	2,298,793	54,974	322,077	94,569
Percentages	100.00	82.98	1.98	11.63	3.41

THIRD DISTRICT.

County.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines	Tons sold to local trade.	Tons consumed or wasted at the mines.
Cass	2,450	.....	.....	2,450	.....
Fulton	646,400	533,346	18,790	77,152	17,112
Hancock	4,655	3,055	.....	1,600	.....
McDonough	51,042	23,003	.....	27,159	880
Menard	393,777	331,419	7,000	33,413	21,945
Peoria	710,582	592,469	9,371	93,548	15,194
Schuyler	14,690	.....	.....	14,515	175
Tazewell	161,609	84,304	.....	71,883	5,422
The district	1,985,205	1,567,596	35,161	321,720	60,728
Percentages	100.00	78.96	1.77	16.21	3.06

FOURTH DISTRICT.

County.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines	Tons sold to local trade.	Tons consumed or wasted at the mines.
Christian	578,482	445,186	50,187	44,678	38,431
Logan	162,091	77,138	39,500	34,519	10,943
Marion	89,370	33,182	.....	54,064	2,124
McLean	167,759	52,205	31,340	56,520	27,694
Shelby	116,100	72,296	5,977	33,506	4,318
Vermilion	2,003,780	1,827,620	.....	128,174	47,986
Woodford	135,578	108,055	8,496	9,246	9,781
The district	3,253,160	2,615,682	135,500	360,701	141,277
Percentages	100.00	80.40	4.17	11.09	4.34

FIFTH DISTRICT.

County.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines	Tons sold to local trade.	Tons consumed or wasted at the mines.
Brown	1,950	.....	.....	1,950	.....
Calhoun	5,204	.....	.....	.....	5,204
Greene	13,233	.....	.....	13,233	.....
Jersey	2,791	.....	.....	2,791	.....
Macoupin	2,115,319	1,861,596	93,519	69,584	90,620
Montgomery	328,251	281,027	8,784	27,551	10,889
Morgan	3,047	.....	.....	3,047	.....
Sangamon	2,919,223	2,559,349	80,262	180,568	99,044
Scott	27,486	.....	20,053	6,933	500
The district	5,416,504	4,701,972	202,618	305,657	206,257
Percentages	100.00	86.81	3.74	5.64	3.81

SIXTH DISTRICT.

County.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines	Tons sold to local trade.	Tons consumed or wasted at the mines.
Bond	208,668	172,170	17,698	6,600	12,200
Clinton	644,664	561,539	38,084	16,264	28,777
Madison	1,595,081	1,409,949	30,818	54,369	99,945
Marion	829,326	646,702	97,759	33,595	51,270
St. Clair	2,518,847	2,150,367	89,940	144,230	134,310
The district	5,796,586	4,940,727	274,299	255,058	326,502
Percentages	100.00	85.24	4.73	4.40	5.63

SEVENTH DISTRICT.

County.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines	Tons sold to local trade.	Tons consumed or wasted at the mines.
Gallatin	21,414	7,000	1,500	12,366	548
Hamilton	840	.....	.....	840	.....
Jackson	911,245	784,804	72,986	15,744	37,711
Jefferson	35,427	7,071	19,781	7,375	1,200
Johnson	4,209	2,500	.....	1,679	30
Perry	664,278	583,629	33,653	22,415	24,581
Randolph	413,549	385,342	6,081	15,181	6,945
Saline	148,701	117,468	14,186	16,577	470
Wabash	3,792	.....	.....	3,792	.....
Washington	35,838	19,800	.....	13,488	2,550
Williamson	1,605,960	1,531,750	.....	21,336	52,874
The district	3,845,253	3,439,364	148,187	130,793	126,909
Percentages	100.00	89.45	3.85	3.40	3.30

The tables following show the disposition of the output of shipping mines only, with percentages:

TABLE XX.—*Disposition of the Total Output of Shipping Mines only, by Districts.*

Districts.	Total output of shipping mines.	Tons shipped.	Tons supplied to locomotives at the mines	Tons sold to local trade.	Tons consumed and wasted at the mines
First	3,449,724	2,987,085	95,953	236,112	130,574
Second	2,476,066	2,298,793	41,669	50,316	85,288
Third	1,706,875	1,567,596	28,691	55,900	54,688
Fourth	3,079,174	2,615,682	135,500	194,215	133,777
Fifth	5,343,191	4,701,972	182,565	258,934	199,720
Sixth	5,717,582	4,940,727	274,299	181,821	320,935
Seventh	3,754,204	3,439,364	123,311	75,145	116,384
The State	25,526,816	22,551,219	881,988	1,052,243	1,041,366

TABLE XXI.—*Total Output of Shipping Mines only, with the Percentages of its Disposition, by Districts.*

DISTRICTS.	Total output of shipping mines.	PERCENTAGES OF—			
		Tons shipped.	Tons supplied to locomotives	Tons sold to local trade.	Tons consumed and wasted at the mines
First	3,449,724	86.59	2.78	6.85	3.78
Second	2,476,066	92.84	1.68	2.03	3.45
Third	1,706,875	91.84	1.68	3.28	3.20
Fourth	3,079,174	84.95	4.40	6.30	4.35
Fifth	5,343,191	88.00	3.42	4.84	3.74
Sixth	5,717,582	86.41	4.80	3.18	5.61
Seventh	3,754,204	91.61	3.29	2.00	3.10
The State	25,526,816	88.34	3.46	4.12	4.08

The significance of these tables is to show the operation and achievement of the shipping mines. It has been shown in previous tables that there were 331 of these mines operating during the year, and that their product was 96 per cent of the total output.

Table XXI shows that the operators of these mines in the Second district shipped 93 per cent of their output, while those of the Third and Seventh districts show 92 per cent; these are followed by the Fifth, First, Sixth and Fourth districts, respectively, making 88 per cent for the State.

Distribution to Railroads.

The following statement shows the number of tons of coal transported and used for locomotives, by the railroads of the State, the number of coal producing counties through which they run and the tons contributed by each, with percentages:

Table XXII.—*Railroads which have hauled the Coal Output of the State, and the tonnage by Counties, Contributed to each Road—1901.*

Number.	Railroads and Counties.	Tons Received by Each Road for—		Percentage—	
		Shipment.	Locomotives.	Shipped.	Supplied to locomotives.
1	Illinois Central	5,764,750	244,959	100.00	100.00
	Williamson	1,074,691	.....	18.64	.....
	Jackson	699,973	48,110	12.15	19.64
	St. Clair	658,996	33,118	11.43	13.52
	Marion	557,705	66,286	9 68	27.07
	Madison	537,732	3,936	9.33	1.60
	Sangamon	503,431	9,264	8.73	3.78
	LaSalle	454,912	.....	7.89	.....
	Perry	441,449	2,997	7.66	1.22
	Macoupin	211,160	22,202	3.66	9.07
	Christian	186,234	8,729	3.23	3.56
	Marshall	76,580	.....	1.32	.....
	Randolph	72,415	.....	1.25	.....
	Shelby	72,296	5,977	1.26	2.44
	Logan	66,429	25,750	1.14	10.51
	Livingston	32,722	3,500	.57	1.43
	Kankakee	30,658	.....	.53	.....
	McLean	29,705	12,590	.52	5.14
	Woodford	20,000	2,500	.35	1.02
	Washington	19,000	.....	.33	.....
	Tazewell	10,000	.....	.17	.....
	Macon	8,662	.....	.16	.....
2	Wabash	1,961,687	80,921	100.00	100.00
	Sangamon	754,750	24,662	38.49	30.48
	Macoupin	688,395	32,259	35.10	39.86
	Vermilion	237,506	.....	12.11	.....
	Christian	159,000	24,000	8.11	29.66
	Livingston	60,631	.....	3.09	.....
	Montgomery	36,416	.....	1.86	.....
	Macon	20,189	.....	1.03	.....
	LaSalle	4,200	.....	.21	.....
3	Chicago & Alton	2,002,617	28,436	100.00	100.00
	Sangamon	972,503	.....	48.56	.....
	Macoupin	718,358	1,436	35.88	5.05
	Menard	170,284	7,000	8.50	24.62
	Will	43,740	.....	2.18	.....
	LaSalle	40,019	.....	2.00	.....
	Grundy	38,758	.....	1.93	.....
	Logan	10,709	13,750	.53	48.35
	McLean	7,500	6,250	.38	21.98
	Livingston	746	.....	.04	.....
4	Chicago & Eastern Illinois	1,855,468	.....	100.00	100.00
	Vermilion	1,398,409	.....	75.43	.....
	Williamson	457,059	.....	24 57	.....

Table XXII.—Continued.

Number.	Railroads and Counties.	Tons Received by Each Road for—		Percentage—	
		Shipment.	Locomotives.	Shipped.	Supplied to locomotives.
5	Chicago, Burlington & Quincy	1,547,420	28,763	100.00	100.00
	LaSalle	636,740	.....	41.15	.....
	Mercer	306,703	1,583	19.82	5.50
	Fulton	293,823	.....	18.99	.....
	Bureau	185,473	657	11.98	2.29
	Peoria	97,228	6,470	6.28	22.49
	McDonough	23,003	.....	1.49	.....
	Hancock	3,055	.....	.20	.....
	Henry	1,054	.....	.07	.....
	Livingston	341	.....	.02	.....
	Scott	.....	20,053	.....	69.72
6	Elgin, Joliet & Eastern	1,097,460	.....	100.00	.....
	Grundy	1,076,225	.....	98.06	.....
	LaSalle	21,235	.....	1.94	.....
7	Baltimore & Ohio Southwestern	915,471	58,985	100.00	100.00
	Clinton	447,339	38,084	48.87	64.57
	St. Clair	349,737	1,546	38.20	2.62
	Sangamon	63,920	10,626	6.98	18.01
	Christian	54,475	8,729	5.95	14.80
8	Chicago, Peoria & St. Louis	846,219	39,490	100.00	100.00
	Madison	315,547	3,960	37.29	10.03
	Sangamon	256,745	35,530	30.34	89.97
	Menard	161,135	.....	19.04	.....
	Macoupin	112,567	.....	13.30	.....
	LaSalle	225	.....	.03	.....
9	Chicago & Northwestern	871,306	10,666	100.00	100.00
	Bureau	871,306	10,666	100.00	100.00
10	Clev., Cin., Chi. & St. Louis	721,680	38,949	100.00	100.00
	Montgomery	234,102	.....	32.44	.....
	Vermilion	191,705	.....	26.55	.....
	Saline	117,468	14,186	16.29	36.40
	Macoupin	109,428	9,784	15.16	25.12
	Christian	45,477	8,729	6.31	22.42
	Tazewell	13,500	.....	1.87	.....
	McLean	7,500	6,250	1.04	16.06
	Johnson	2,500	.....	.34	.....
11	Louisville & Nashville	559,071	57,554	100.00	100.00
	St. Clair	544,200	36,273	97.34	63.03
	Jefferson	7,071	19,781	1.27	34.36
	Gallatin	7,000	1,500	1.25	2.61
	Washington	800	.....	.14	.....
12	Southern Railroad Co	567,085	19,003	100.00	100.00
	St. Clair	452,885	19,003	79.86	100.00
	Clinton	114,200	.....	20.14	.....
13	Mobile & Ohio	478,788	51,332	100.00	100.00
	Randolph	290,042	.....	60.58	.....
	Perry	94,327	26,456	19.70	51.54
	Jackson	84,831	24,876	17.72	48.46
	St. Clair	9,588	.....	2.00	.....

Table XXII.—Continued.

Number	Railroads and Counties.	Tons Received by Each Road for—		Percentages—	
		Shipment.	Locomotives.	Shipped.	Supplied to locomotives.
14	Atchison, Topeka & Santa Fé	522,122	5,996	100.00	100.00
	Marshall	226,798	.....	43.44	.....
	LaSalle	106,890	.....	20.47	.....
	Woodford	88,055	5,996	16.86	100.00
	Grundy	80,392	.....	15.40	.....
	Livingston	19,987	.....	3.83	.....
15	Chicago, Rock Island & Pacific	403,283	96,384	100.00	100.00
	LaSalle	212,000	83,079	52.56	86.20
	Bureau	177,367	13,305	43.98	13.80
	Peoria	7,916	.....	1.97	.....
	Marshall	6,000	.....	1.49	.....
16	Vandalia Line	393,097	21,722	100.00	100.00
	Madison	393,097	21,722	100.00	100.00
17	Indiana, Illinois & Iowa	309,436	657	100.00	100.00
	Bureau	185,474	657	59.94	100.00
	Livingston	76,458	.....	24.71	.....
	Kankakee	45,204	.....	14.61	.....
	LaSalle	2,300	.....	.74	.....
18	Iowa Central	261,308	10,631	100.00	100.00
	Fulton	136,153	8,831	52 10	83.07
	Peoria	125,155	1,800	47.90	16.93
19	Toledo, Peoria & Western	246,146	18,433	100.00	100.00
	Peoria	161,174	.....	65.48	.....
	Fulton	82,270	9,059	33.42	49.15
	Livingston	2,702	9,374	1.10	50.85
20	Peoria & Pekin Union	252,142	550	100.00	100.00
	Peoria	197,978	550	78.52	100.00
	Tazewell	54,164	.....	21.48	.....
21	Rock Island & Peoria	207,066	1,363	100.00	100.00
	Mercer	204,738	1,363	98.88	100.00
	Rock Island	2,328	.....	1.12	.....
22	Toledo, St. Louis & Kansas City	178,670	18,398	100.00	100.00
	Bond	172,170	17,698	96.36	96.20
	Montgomery	6,500	700	3.64	3.80
23	Jacksonville & St. Louis	114,694	67,395	100.00	100.00
	Marion	88,997	31,473	77.60	46.70
	Macoupin	21,688	27,838	18.91	41.31
	Montgomery	4,009	8,084	3.49	11.99
24	St. Louis, Troy & Eastern	163,573	1,200	100.00	100.00
	Madison	163,573	1,200	100.00	100.00
25	Louisville, Evansville & St. Louis Cons	94,122	.....	100.00	.....
	St. Clair	94,122	.....	100.00	100.00
26	Wabash, Chester & Western	47,853	4,200	100.00	100.00
	Perry	47,853	4,200	100.00	100.00
27	Toluca & Eastern	15,684	26,093	100.00	100.00
	Marshall	15,684	26,096	100.00	100.00

Table XXII.—Concluded.

Number.	Railroads and Counties.	Tons Received by Each Road for—		Percentage—	
		Shipment.	Locomotives.	Shipped.	Supplied to locomotives.
28	Belleville & Carondelet	40,839	.....	100.00	.....
	St. Clair	40,839	.....	100.00	.....
29	Illinois Southern Railroad Co	22,885	6,081	100.00	100.00
	Randolph	22,885	6,081	100.00	100.00
30	Galesburg & Great Eastern	25,072	650	100.00	100.00
	Knox	25,072	650	100.00	100.00
31	Fulton County Narrow Gauge	21,100	900	100.00	100.00
	Fulton	21,100	900	100.00	100.00
32	Lake Erie & Western	14,149	6,250	100.00	100.00
	McLean	7,500	6,250	53.04	100.00
	Tazewell	6,640	.....	46.96	.....
33	Pawnee	8,000	180	100.00	100.00
	Sangamon	8,000	180	100.00	100.00
34	Indiana, Decatur & Western	4,331	.....	100.00	.....
	Macon	4,331	.....	100.00	.....
	Total tons handled by 34 railroads	22,541,230	946,692	.....	.....
	Shipped by Water.				
	Rock river and Hennepin canal, Henry Co	6,300	.....	.....	.....
	Illinois river, Peoria county	3,689	.....	.....	.....
	Total tons shipped by water	9,989	.....	.....	.....

The tonnage contributed by each county, to the various railroads, appears in the following table.

Table XXIII.—*Counties which have Produced the Commercial Coal of the State and the Tonnage Delivered to the Several Railroads in each, for Transportation.*

Counties and Railroads.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
Sangamon	.....	2,559,349
Chicago & Alton	972,503	38.00
Wabash	754,750	29.49
Illinois Central	503,431	19.67
Chicago, Peoria & St. Louis	256,745	10.03
Baltimore & Ohio Southwestern	63,920	2.50
Pawnee	8,000	.31

Table XXIII.—Continued.

Counties and Railroads.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
St. Clair		2,150,367
Illinois Central	658,996	30.65
Louisville & Nashville	544,200	25.30
Southern Railway Co	547,007	25.44
Baltimore & Ohio Southwestern	349,737	16.26
Belleville & Carondelet	10,839	1.90
Mobile & Ohio	9,588	.45
Macoupin		1,861,596
Chicago & Alton	718,358	38.59
Wabash	688,395	36.98
Illinois Central	211,160	11.34
Chicago, Peoria & St. Louis	112,567	6.05
Cleveland, Cincinnati, Chicago & St. Louis	109,428	5.88
Jacksonville & St. Louis	21,688	1.16
Vermilion		1,827,629
Chicago & Eastern Illinois	1,398,409	76.51
Wabash	237,506	13.00
Cleveland, Cincinnati, Chicago & St. Louis	191,705	10.49
Williamson		1,531,750
Illinois Central	1,074,691	70.16
Chicago & Eastern Illinois	457,059	29.84
LaSalle		1,478,521
Chicago, Burlington & Quincy	636,740	43.07
Illinois Central	454,912	30.77
Chicago, Rock Island & Pacific	212,000	14.34
Atchison, Topeka & Santa Fé	106,890	7.23
Chicago & Alton	40,019	2.71
Elgin, Joliet & Eastern	21,235	1.44
Wabash	4,200	.28
Indiana, Illinois & Iowa	2,300	.15
Cleveland, Cincinnati, Chicago & St. Louis	225	.01
Bureau		1,419,620
Chicago & Northwestern	871,306	61.38
Indiana, Illinois & Iowa	185,474	13.07
Chicago, Burlington & Quincy	185,473	13.06
Chicago, Rock Island & Pacific	177,367	12.49
Madison		1,409,949
Illinois Central	537,732	38.14
Vandalia Line	398,097	27.88
Chicago, Peoria & St. Louis	315,547	22.38
St. Louis, Indianapolis & Eastern	163,573	11.60
Grundy		1,195,375
Elgin, Joliet & Eastern	1,076,225	90.03
Atchison, Topeka & Santa Fé	80,392	6.73
Chicago & Alton	38,758	3.24
Jackson		784,804
Illinois Central	699,973	89.19
Mobile & Ohio	84,831	10.81
Marion		646,702
Illinois Central	557,705	86.24
Jacksonville & St. Louis	88,997	13.76

Table XXIII.—Continued.

Counties and Railroads.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
Peoria		588,978
Peoria & Pekin Union	197,978	33.63
Toledo, Peoria & Western	161,174	27.37
Iowa Central	125,155	21.26
Chicago, Burlington & Quincy	97,228	16.51
Peoria & Pekin Terminal	7,245	1.23
Perry		583,629
Illinois Central	441,449	75.64
Mobile & Ohio	94,327	16.16
Wabash, Chester & Western	47,853	8.20
Clinton		561,539
Baltimore & Ohio Southwestern	447,339	79.66
Southern Railway Company	114,200	20.34
Fulton		533,346
Chicago, Burlington & Quincy	293,823	55.09
Iowa Central	136,153	25.53
Toledo, Peoria & Western	82,270	15.42
Fulton County Narrow Gauge	21,100	3 96
Mercer		511,441
Chicago, Burlington & Quincy	306,703	59.97
Rock Island & Peoria	204,738	40.03
Christian		445,186
Illinois Central	186,234	41.83
Wabash	159,000	35.72
Baltimore & Ohio Southwestern	54,475	12.24
Cleveland, Cincinnati, Chicago & St. Louis	45,477	10.21
Randolph		385,342
Mobile & Ohio	290,042	75.27
Illinois Central	72,415	18.79
Illinois Southern	22,885	5.94
Menard		331,419
Chicago & Alton	170,284	51.38
Chicago, Peoria & St. Louis	161,135	48.62
Marshall		325,062
Atchison, Topeka & Santa Fé	226,798	69.78
Illinois Central	76,580	23.56
Toluca & Eastern	15,684	4.82
Chicago, Rock Island & Pacific	6,000	1.84
Montgomery		281,027
Cleveland, Cincinnati, Chicago & St. Louis	234,102	83.30
Wabash	36,416	12.96
Toledo, St. Louis & Western	6,500	2.31
Jacksonville & St. Louis	4,009	1.43
Livingston		193,587
Indiana, Illinois & Iowa	76,458	39.50
Wabash	60,631	31.32
Illinois Central	32,722	16.90
Atchison, Topeka & Santa Fé	19,987	10.32
Toledo, Peoria & Western	2,702	1.40
Chicago & Alton	746	.38
Chicago, Burlington & Quincy	341	.18

Table XXIII.—Continued.

Counties and Railroads.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
Bond		172,170
Toledo, St. Louis & Western	172,170	100.00
Saline		117,468
Cleveland, Cincinnati, Chicago & St. Louis	117,468	100.00
Woodford		108,055
Atchison, Topeka & Santa Fé	88,055	81.49
Illinois Central	20,000	18.51
Tazewell		84,304
Peoria & Pekin Union	54,164	64.25
Cleveland, Cincinnati, Chicago & St. Louis	13,500	16.01
Illinois Central	10,000	11.86
Lake Erie & Western	6,640	7.88
Logan		77,138
Illinois Central	66,429	86.12
Chicago & Alton	10,709	13.88
Kankakee		75,862
Indiana, Illinois & Iowa	45,204	59.59
Illinois Central	30,658	40.41
Shelby		72,296
Illinois Central	72,296	100.00
McLean		52,205
Illinois Central	29,705	56.90
Cleveland, Cincinnati, Chicago & St. Louis	7,500	14.37
Chicago & Alton	7,500	14.37
Lake Erie & Western	7,500	14.36
Will		43,740
Chicago & Alton	43,740	100.00
Macon		33,182
Wabash	20,189	60.85
Illinois Central	4,331	13.05
Indiana, Decatur & Western	4,331	13.05
Peoria, Decatur & Evansville	4,331	13.05
Knox		25,072
Galesburg & Great Eastern	25,072	100.00
McDonough		23,003
Chicago, Burlington & Quincy	23,003	100.00
Washington		19,800
Illinois Central	19,000	95.96
Louisville & Nashville	800	4.04
Rock Island		10,244
Davenport, Rock Island & Northwestern	7,916	77.27
Rock Island & Peoria	2,328	22.73
Henry		1,054
Chicago, Burlington & Quincy	1,054	100.00

Table XXIII.—Concluded.

Counties and Railroads.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
Jefferson		7,071
Louisville & Nashville	7,071	100.00
Gallatin		7,000
Louisville & Nashville	7,000	100.00
Hancock		3,055
Chicago, Burlington & Quincy	3,055	100.00
Johnson		2,500
Cleveland, Cincinnati, Chicago & St. Louis	2,500	100.00
The State—41 counties		22,541,230
By water		9,989
Peoria—Illinois river	3,689	
Henry—Rock river and Hennepin canal	6,300	

This table reveals that 41 of the 53 coal producing counties of the State contribute to the railroads transporting the product of the mines. This leaves 12 counties that are confined exclusively to supplying the local trade.

The following table gives the total tonnage, for shipment and for locomotives, together with the number of coal producing counties traversed by the different roads:

TABLE XXIV.—*Illinois Coal Delivered to Illinois Railroads, for use on Locomotives and on Cars for Transportation—1901.*

	Railroads.	Number of counties.	Tons.
1	Illinois Central	21	6,009,709
2	Wabash	8	2,042,908
3	Chicago & Alton	9	2,031,053
4	Chicago & Eastern	2	1,855,468
5	Chicago, Burlington & Quincy	10	1,576,183

Table XXIV.—Concluded.

	Railroads.	Number of counties.	Tons.
6	Elgin, Joliet & Eastern	2	1,097,460
7	Baltimore & Ohio Southwestern	4	974,456
8	Chicago, Peoria & St. Louis	5	885,709
9	Chicago & Northwestern	1	881,972
10	Cleveland, Cincinnati, Chicago & St. Louis	8	760,629
11	Louisville & Nashville	4	616,625
12	Southern Railroad Co	2	586,088
13	Mobile & Ohio	4	530,120
14	Atchison, Topeka & Santa Fé	5	528,118
15	Chicago, Rock Island & Pacific	4	499,667
16	Vandalia Line	1	414,819
17	Indiana, Illinois & Iowa	4	310,093
18	Iowa Central	2	271,939
19	Toledo, Peoria & Western	3	264,579
20	Peoria & Pekin Union	3	260,488
21	Rock Island & Peoria	2	208,429
22	Toledo, St. Louis & Kansas City	2	197,068
23	Jacksonville & St. Louis	3	182,089
24	St. Louis, Troy & Eastern	1	164,773
25	Louisville, Evansville & St. Louis Consolidated	1	94,122
26	Wabash, Chester & Western	1	52,053
27	Toluca & Eastern	1	41,777
28	Belleville & Carondelet	1	40,839
29	Illinois Southern Railroad Co	1	28,966
30	Galesburg & Great Eastern	1	25,722
31	Fulton Narrow Gauge	1	22,000
32	Lake Erie & Western	2	20,390
33	Pawnee	1	8,180
34	Indiana, Decatur & Western	1	4,331
	Total	.....	23,487,922

The Illinois Central Railroad, reaching all the important coal regions located in 21 Counties of the State, more than maintains the record presented in former reports, having placed to its credit this year 6,009,709 tons representing more than one fourth of the entire tonnage delivered to the 34 railroads for shipment.

Days of Active Operation.

The number of days of active operation of the mines in the several districts, and the State, for the year is here presented:

Table XXV.—*Days of Active Operation, by Districts.*

District.	Average Working Days.								
	All mines.			Shipping mines.			Local mines.		
	Mines.	Men.	Days.	Mines.	Men.	Days.	Mines.	Men.	Days.
First	80	7,872	222	39	7,571	235.5	41	301	214.3
Second	187	6,306	166	26	5,364	202	161	942	159
Third	225	3,760	163	53	2,973	188	172	787	155
Fourth	81	6,950	159	33	6,501	185.7	48	449	141
Fifth	102	6,837	175	46	6,586	207	56	251	148
Sixth	110	6,871	218	77	6,677	223.6	33	194	205
Seventh	130	5,547	147	57	5,246	182.4	73	293	117
The State	915	44,143	174.3	331	40,940	204.4	584	3,217	157

Compared with a similar table for last year, the days for all mines was less by 8—the shipping mines 10—and the local mines 9.

The following table shows the number of shipping mines and days worked in each of the districts for a series of years:

Table XXVI.—*Days of Active Operation of Shipping Mines for a Series of Nine Years.*

Year.	First.		Second.		Third.		Fourth.		Fifth.		Sixth.		Seventh		The State.	
	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.
1893	38	220	26	228	80	215	56	251	101	233	....	.....	....	.....	301	229.6
1894	35	151.5	26	171	81	182.9	63	194.7	90	186.9	....	.....	....	.....	295	183.1
1895	26	159.4	28	176.1	66	173	64	188.5	94	192.6	....	.....	....	.....	278	182.2
1896	38	166	46	198	27	157	40	210	50	197	72	196	49	164	322	186
1897	35	166.9	46	183.2	19	158.6	36	207.7	50	202.1	73	194.8	51	165.5	310	185.5
1898	39	144.5	48	171.1	21	187.5	39	190	51	172.3	72	170.6	59	186.8	329	174.7
1899	37	208	45	211	23	185	37	221.6	50	201.6	72	201	57	206.6	321	205.7
1900	44	238	20	234	55	201	34	210	44	219	73	217	53	197	323	214
1901	39	235.5	26	202	53	188	33	185.7	46	207	77	223.6	57	182.4	331	204.4

Average Value of Coal.

TABLE XXVII.—*Total Tons and Average Value of the Different Grades of Coal at the Mines, by Districts.*

District.	All Grades.		Lump Coal.		Mine Run Coal.	
	Total tons.	Average value per ton.	Tons.	Average value per ton.	Tons.	Average value per ton.
First	3,568,198	$1.125	2,384,343	$1.35	242,795	$1.33
Second	2,770,413	1.3098	1,932,918	1.509	255,523	1.383
Third	1,985,205	1.042	1,172,376	1.226	437,956	0.968
Fourth	3,253,160	1.022	995,415	1.341	1,751,321	0.959
Fifth	5,416,504	0.8495	2,462,076	1.043	1,578,480	0.867
Sixth	5,796,586	0.7856	3,114,341	0.944	1,338,891	0.809
Seventh	3,845,253	0.8418	1,259,655	1.037	1,277,774	0.847
The State	26,635,319	$0.9543	13,321,124	$1.181	6,882,740	$0.919
1900	25,153,928	0.8949	13,927,899	1.099	5,554,417	0.794

TABLE XXVII.—*Total Tons and Average Value of the Different Grades at the Mines, by Districts.*—Concluded.

District.	Egg Coal.		Nut Coal.		Pea Coal.		Slack Coal.	
	Tons.	Average value per ton.	Tons.	Average value per ton.	Tons.	Average value per ton.	Tons.	Av. value per ton
First	45,870	$1.42	100,331	$0.896	734,938	$0.424	59,921	$0.25
Second	24,387	1.46	75,864	1.20	260,377	0.534	221,344	0.422
Third	2,634	1.284	98,658	0.764	185,119	0.431	88,462	0.399
Fourth	24,532	0.807	153,693	0.886	188,801	0.448	109,398	0.329
Fifth	75,377	1.016	208,966	0.833	863,561	0.421	228,044	0.227
Sixth	37,438	0.996	259,310	0 596	865,118	0.370	181,488	0.103
Seventh	276,358	1.024	290,305	0.812	569,677	0.53	171,484	0.157
The State.	486,596	$1.086	1,217,127	$0.808	3,667,591	$0.436	1,060,141	$0.269
1900	495,637	0.94	1,323,582	0.695	2,811,520	0.418	1,040,874	0.221

The average value of all grades per ton is $0.9543; lump coal $1.181, and run of mine $0.919. Compared with last year, the report shows an increase as follows: All grades 6 cents; lump coal 8 cents; and mine run 12½ cents per ton.

Value of lump coal per ton, for a series of years, is presented in the following table. It will be noted that the value of this grade of coal, per ton, as reported for this year, is higher than reported for any year since 1884, a period of 17 years.

TABLE XXVIII.—*Average Value of Lump Coal Per Ton at the Mine for a Series of Twenty Years, 1882–1901.*

Year.	Tons of lump coal produced.	Average value per ton.	Year.	Tons of lump coal produced.	Average value per ton.
1882	9,115,653	$1.51	1892	14,730,963	$1.029
1883	10,030,991	1.48	1893	16,112,899	1.025
1884	10,101,005	1.26	1894	13,865,284	1.009
1885	9,791,874	1.17	1895	14,045,962	0.932
1886	9,246,435	1.10	1896	13,990,924	0.899
1887	10,278,890	1.085	1897	14,672,241	0.852
1888	11,855,188	1.123	1898	14,208,795	0.918
1889	11,597,963	1.078	1899	16,008,109	0.9186
1890	12,638,364	1.019	1900	13,927,899	1.099
1891	12,900,224	1.008	1901	13,321,124	1.181

The tonnage of lump coal, reported for this year represents one half of the entire output. The reduction in the amount of this grade of coal is caused by the classification into mine run, and the grades known as egg, nut and pea coal. This division of the product was made for the first time in the report for 1900 and is continued in this report.

Mine Employes.

The total number of all classes of employés and where employed by districts, and for the State is presented in the following table, ninety per cent were employed under ground.

Table XXIX.—*Classification of Employés in the Mines, by Districts*

District.	All Employes.					
	Under ground.				Above ground.	Total number.
	Number of miners.	Others employés.	Boys.	Total		
First	5,888	1,101	297	7,286	586	7,872
Second	4,668	917	174	5,759	547	6,306
Third	2,882	389	100	3,371	389	3,760
Fourth	3,678	2,384	170	6,232	718	6,950
Fifth	4,985	892	232	6,109	728	6,837
Sixth	4,873	1,034	204	6,111	760	6,871
Seventh	3,855	878	149	4,882	665	5,547
The State	30,829	7,595	1,326	39,750	4,393	44,143

It will be observed that all classes of mine employés number 44,143 which is an increase of 4,759 or 12 per cent over last year, and is a much larger relative increase than heretofore noted in these reports.

The number employed for each of nineteen years, by districts, appears in the following table:

TABLE XXX.—*Employés in Coal Mines of the State for a Series of Nineteen Years, by Districts.*

YEAR.	DISTRICTS.							
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	The State.
1883	7,566	3,211	4,070	4,417	4,675	.....	.....	23,939
1884	8,013	3,616	5,018	4,781	4,147	.....	.....	25,575
1885	7,463	3,391	5,213	4,950	4,429	.....	.....	25,446
1886	7,613	3,599	4,870	5,197	4,567	.....	.....	25,846
1887	7,915	4,068	4,903	4,934	4,984	.....	.....	26,804
1888	8,623	4,914	5,250	5,086	5,537	.....	.....	29,410
1889	9,014	4,498	5,117	5,679	5,764	.....	.....	30,076
1890	8,258	4,099	5,171	5,685	5,361	.....	.....	28,574
1891	9,128	5,089	6,458	5,881	6,395	.....	.....	32,951
1892	9,572	4,865	6,453	6,542	6,200	.....	.....	33,632
1893	8,831	5,974	6,964	7,021	6,780	.....	.....	35,390
1894	10,280	6,713	7,112	7,750	6,621	.....	.....	38,477
1895	9,644	7,184	6,607	8,005	7,190	.....	.....	38,630
1896	9,380	7,103	2,134	4,467	5,758	4,374	3,816	37,032
1897	7,632	6,872	1,635	4,021	5,672	4,100	3,856	33,788
1898	7,377	6,799	1,800	4,030	6,093	4,662	4,265	35,026
1899	7,498	6,631	1,796	4,655	6,401	5,008	4,999	36,991
1900	7,722	5,693	3,864	5,545	5,983	5,855	4,692	39,384
1901	7,872	6,306	3,760	6,950	6,837	6,871	5,547	44,143

Prices Paid for Mining.

Table XXXI.—*Average Prices Paid for Mining by Hand, and with Machines, by Districts.*

District.	Mined by Hand.					Mined by Machine.	
	Gross tons.	Average price.	Screened tons.	Average price.	Tons paid by the day.	Gross tons.	Average price.
First	3,550,213	$0.725	.....	.....	*8,857	9,128	$0.51
Second	2,448,892	0.72	321,521	$0.932	.....	.....	.....
Third	1,749,822	0.555	218,426	0.845	.....	16,957	0.455
Fourth	3,082,629	0.521	28,050	1.367	72,543	69,938	0.445
Fifth	3,423,134	0.4978	32,063	0.988	420	1,960,887	0.42
Sixth	3,009,971	0.485	.....	.....	†6,021	2,780,594	0.418
Seventh	2,908,118	0.445	.....	.....	.....	937,135	0.377
The State	20,172,779	0.564	600,060	0.923	87,841	5,774,639	0.412

*Paid $2.28 per day.
†Paid $2.75 per day.

Average prices for hand mining for the State advanced from $0.4931 last year to $0.564 per ton this year, and machine mining from $0.3578 to $0.412. The total product mined by machines increased only 191,045 tons. While two additional districts, the fourth and fifth, report screened coal, however the aggregate tonnage of this grade is but a fraction more than that given for last year.

Payment of Wages.

The following table presents the frequency of the payment of wages, by districts:

Table XXXII.—*Frequency of Wage Payments, by Districts.*

District.	Wages Paid Weekly.			Wages Paid Semi-Monthly.			Wages Paid Monthly.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First	10	67	18,565	70	7,805	3,549,633	.....	.....	.....
Second	133	622	176,770	52	5,644	2,577,146	2	40	16,497
Third	23	91	19,345	202	3,669	1,965,860	.....	.....	.....
Fourth	35	206	77,817	46	6,744	3,175,343	.....	.....	.....
Fifth	1	13	6,252	100	6,802	5,405,048	1	22	5,204
Sixth	24	111	62,286	85	6,757	5,733,420	1	3	880
Seventh	38	119	23,054	91	5,412	3,813,075	1	16	9,124
The State	264	1,229	384,089	646	42,833	26,219,525	5	81	31,705

The table following presents the percentages of mines, men and tons, as to the payment of wages for a series of nine years:

TABLE XXXIII.—*Percentages of Mines, Men and Tons in reference to payment of wages for a series of nine years.*

YEAR.	WAGES PAID WEEKLY.			WAGES PAID SEMI-MONTHLY.			WAGES PAID MONTHLY.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
1893	67	27.6	26.2	25	56	56.4	8	16.4	23.4
1894	43	11.7	9.7	46	66.6	67.2	11	21.7	23.
1895	31	6.5	4.2	57	78.3	74.4	12	15.2	21.4
1896	49	7.8	5.3	37.5	74.6	12	12	17.6	21.2
1897	46.78	6.91	4.34	39.04	74.69	73.71	14.18	18.4	21.9
1898	32.23	5.36	4.99	62.32	90.25	89.78	5.45	4.38	5 23
1899	24.75	4 67	3.04	71.54	93.02	94.75	3.71	2.31	2.21
1900	33	4.12	2.57	64.8	95.04	96.84	2.2	.48	.59
1901	28.85	2.79	1.44	70.60	97.03	98.44	.55	.18	.12

The system of paying semi-monthly obtains quite generally over the State. It appears from the above table that 71 per cent of the mines, employing 97 per cent of the men, and producing 98 per cent of the entire output pay wages semi-monthly.

Machine Mining.

The table following indicates the number of mines in which machines were employed during the year, exclusively or in part, the number of men employed and the tons mined in the several districts and the State, also the number of machines in use:

Table XXXIV.—*Machine Mining, Mines, Men and Tons, by Districts.*

District.	Mines in Which Machines Are Used—									
	Exclusively.				In part.			Total.		
	Mines.	Men.	Machines.	Tons.	Mines.	Machines.	Tons.	Mines.	Machines.	Tons.
First	.....	.....	.....	.....	1	1	9,128	1	1	9,128
Second	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Third	.....	.....	.....	.....	2	10	16,957	2	10	16,957
Fourth	.....	.....	.....	.....	3	11	69,938	3	11	69,938
Fifth	13	1,860	141	1,913,366	1	4	47,521	14	145	1,960,887
Sixth	16	1,639	139	1,847,904	14	79	932,690	30	218	2,780,594
Seventh	.....	.....	.....	.....	13	79	937,135	13	79	937,135
The State	29	3,499	280	3,761,270	34	184	2,015,369	63	464	5,774,639

The number of mines employing machines exclusively is reduced from 38 last year to 29 this year—the number of machines increased 8, while the total product is but 4,331 tons less than last year. The number of mines in which machines were used in part show an increase of 5, and the number of machines 26. Last year mines using machines exclusively were reported from the fourth, fifth, sixth and seventh districts; this year this class of mines is confined to the fifth and sixth districts.

The slight increase in the machine mine product, for the year, where machines are used in part, is reported from this class of mines, located principally in the Fifth, Sixth and Seventh districts.

Table XXXV gives the names and number of machines in use during the year; the number reported is 464; this is an increase of 34

over last year. A new machine has entered the field since the last report, namely, the Herzler & Henninger; one is reported in the Fifth district and 12 in the Sixth.

TABLE XXXV.—*Name and Number of Mining Machines in Use, by Districts.*

District.	Harrison.	Ingersoll-Sergeant.	Sullivan.	Link-Belt.	Morgan-Gardner.	Yoek.	Jeffrey.	Herzler & Henninger.	Total.
First	.....	.....	1	.....	.....	.....	.....	.....	1
Second	.....	.....	.....	.....	.....	.....	.....	.....	.....
Third	.....	8	.....	2	.....	.....	.....	.....	10
Fourth	.....	.....	3	.....	8	.....	.....	.....	11
Fifth	89	29	.....	12	9	4	1	1	145
Sixth	64	80	8	5	9	20	20	12	218
Seventh	25	15	21	.....	6	.....	12	.....	79
The State	178	132	33	19	32	24	33	13	464

The following table presents the record of mines in which machines are used exclusively:

TABLE XXXVI.—*Mines in Which Machines are Used Exclusively.*

COMPANY.	LOCATION.	MACHINES.		TONS.
		No.	Name.	
Staunton Coal Co	Staunton	6	Jeffrey	327,449
Chicago-Virden Coal Co., No. 1	Virden	9	Link-Belt	313,228
Madison Coal Co., No. 2	Glen Carbon	21	Ingersoll-Sergeant	270,956
Consolidated Coal Co., No. 6	Staunton	19	4 Yoch 15 Harrison	251,525
Madison Coal Co., No. 5	Mount Olive	17	Ingersoll-Sergeant	242,846
Madison Coal Co., No. 4	Glen Carbon	21	Ingersoll-Sergeant	236,376
Consolidated Coal Co., No. 7	Staunton	15	Harrison	223,177
Consolidated Coal Co., No. 8	Mount Olive	17	Harrison	218,297
Consolidated Coal Co., No. 10	Mount Olive	16	1 Herzler & Henninger 15 Harrison	200,340
Consolidated Coal Co., Abbey, No. 3	Collinsville	11	Harrison	159,460
Consolidated Coal Co., Heinz Bluff	Collinsville	10	Harrison	148,990
Muren Coal & Ice Co., No. 1	New Baden	11	Yoch	122,000
Madison Coal Co., No. 6	Divernon	4	1 Jeffrey 3 Link-Belt	118,920
Hillsboro Coal Co	Hillsboro	5	Morgan-Gardner	110,056
Trenton Coal, L. & P. Co	Trenton	10	Ingersoll-Sergeant	107,399
Girard Coal Co	Girard	9	Ingersoll-Sergeant	84,544
Walnut Hill Coal Co	Birkner	6	Sullivan	83,087
Consolidated Coal Co	Gillespie	13	Harrison	78,418
Oakland Coal Co	Belleville	5	Ingersoll-Sergeant	67,185
Consolidated Coal Co	Trenton	12	Harrison	66,048
Consolidated Coal Co	Marissa	6	Harrison	65,153
Consolidated Coal Co	Hornsby	13	Harrison	60,559
Consolidated Coal Co	Belleville	5	Harrison	47,141
Consolidated Coal Co. (Shuman)	Belleville	4	3 Harrison 1 Sergeant	46,679
Consolidated Coal Co. (Green Mts.)	Belleville	4	Harrison	38,674
Consolidated Coal Co. (Richland)	Belleville	4	3 Harrison 1 Herzler & Henninger	36,278
Consolidated Coal Co. (Rose Hill)	Belleville	3	Harrison	25,029
Wm. Neil & Co	Bunker Hill	1	Harrison	6,252
Thomas Press Brick Co	Golden Eagle	3	Ingersoll-Sergeant	5,204
Total, 29 mines		280		3,761,270

The above table represents the mines in which machines are used exclusively; compared with the last report the number of mines is decreased by nine, the number of machines increased by eight, while the number of tons cut is substantially the same as last year.

The table following gives account of the mines in which machines perform only a part of the production of coal.

TABLE XXXVII.—*Mines in which Only Part of the Output is Cut by Machines.*

COMPANY.	LOCATION.	MACHINES.		TONS.
		No.	Name.	
Big Muddy Coal & Iron Co	Murphysboro	6	Ingersoll-Sergeant	264,459
Big Muddy Coal & Iron Co	Murphysboro	11	Harrison	179,650
Odin Coal Co	Odin	6	2 Jeffreys, 4 Link-Belt	175,291
Sorento P. & Mfg. Co	Sorento	7	Ingersoll-Sergeant	112,129
Southern Ill. C. M. & W. Co	Marion	10	Sullivan	98,563
Donk Bros. Coal & Coke Co	Collinsville	6	1 Jeffrey, 5 Morgan-Gardner	93,457
Muren Coal & Ice Co	Belleville	6	3 Jeffrey, 3 Morgan-Gardner	90,000
Centralia Mining & Mfg. Co	Centralia	6	Jeffrey	84,748
Madison Coal Co. No. 3	Edwardsville	10	Ingersoll-Sergeant	74,467
Chicago-Carterville Coal Co	Herrin	6	3 Morgan-Gardner, 3 Jeffrey	66,082
Glendale Coal Co No. 1	Belleville	5	2 Harrison, 1 Sullivan, 2 Herzler-Henninger	63,100
Lebanon Coal & M. Co	Lebanon	9	Yock	62,940
Gartside Coal Co No. 4	Murphysboro	6	Ingersoll-Sergeant	60,048
Geo. W. Brown Coal Co	Pinckneyville	3	Morgan-Gardner	52,500
Chicago, Wil. & Ver. Coal Co	Thayer	4	Morgan-Gardner	47,521
Willis Coal & Mining Co	Willisville	5	Ingersoll-Sergeant	47,092
Kolb Coal Co	Mascoutah	6	4 Herzler-Henninger, 2 Ingersoll-Sergeant.	42,137
Crab Orchard Coal Co	Marion	6	Jeffrey	40,049
Beck-Walker Coal Co	Belleville	5	2 Sullivan, 2 Ingersoll-Sergeant, 1 Herzler-Henninger	40,000
Southern Ill. C. M. & W. Co	Marion	6	Jeffrey	38,750
Belleville & O'Fallon Coal Co	Belleville	4	Herzler-Henninger	33,630
Moweaqua C. & M. Co	Moweaqua	5	Morgan-Gardner	32,202
Skellet Coal Co	Belleville	2	Jeffrey	31,606
Mt. Vernon Coal Co	Mt. Vernon	5	Sullivan	31,314
Lenz Coal & Mfg. Co	Belleville	2	1 Link-Belt, 1 Morgan-Gardner	26,190
Chicago Big Muddy Coal Co	Marion	3	Jeffrey	25,495
Decatur Coal Co	Niantic	3	Morgan-Gardner	23,193
Gartside Coal Co	Murphysboro	3	Ingersoll-Sergeant	22,463
Athens Mining Co	Athens	8	Ingersoll-Sergeant	15,363
Himrod Coal Co	Himrod	3	Sullivan	14,543
Gartside Coal Co. No. 1	Murphysboro	3	Ingersoll-Sergeant	10,670
Cardiff Coal Co	Cardiff	1	Sullivan	9,128
Consolidated Coal Co	Troy	5	Harrison	3,001
Farmington Coal Co	Farmington	2	Link-Belt	1,594
Total—34 mines		184		2,013,369

The foregoing table gives in detail the mines in which machines are used only in part in mining coal. These mines are increasing from year to year; this year the increase over last is five mines, 26 machines and 195,376 tons.

Consumption of Powder.

The extent to which powder is used in mines is shown in the following table:

Table XXXVIII.—*Distribution of Powder used in all Mines, by Districts.*

District.	Mines Using Powder for Blasting Coal—Hand Mining.				Mines Using Powder for Other Purposes.	
	Mines.	Men.	Kegs.	Tons.	Mines.	Kegs.
First	43	4,128	31,425	1,763,307	.....	.....
Second	88	1,601	34,484	795,910	.....	.....
Third	160	3,378	79,675	1,820,492	.....	.....
Fourth	69	6,148	60,114	2,964,746	3	8,576
Fifth	38	6,706	126,326	3,429,683	14	13,823
Sixth	71	7,066	64,007	2,843,616	28	34,334
Seventh	116	5,543	81,581	2,665,426	13	16,739
The State	585	34,570	477,612	16,283,180	58	73,472

Compared with last year the number of mines using powder for blasting coal is less by 36; the number of tons cut less by 3,696,039; the number of men employed increased 4,893, while the number of kegs consumed is 13,101. less.

The table further reveals that, for the State, 13.8 kegs of powder was used per man, producing 34.1 tons per keg; this is 2.73 kegs less per man than last year, and 6.62 tons less per keg.

Fatal Accidents in Mines.

The number of fatal accidents for the year is 99, an increase of 5, or 5.32 per cent, compared with last year. There were two additional men killed while engaged in sinking shafts, but are omitted in these tables for the reason that only those losing their lives in the actual mining of coal are considered in these computations. However, the increase in the number killed this year is not disproportionate, as the number of men employed increased 12 per cent and the tonnage 6 per cent, the ratio of increase for the State is less than the three previous years. In the different districts, however, there is a marked variation in the number of killed reported compared with the previous year. In the first district the number is 40 per cent less, while in the sixth and seventh it is 100 per cent additional. The number of men employed to each death is 446; the rate per 1,000 is 2.2.

The table following gives the record of the year:

Table XXXIX.—*Fatal Casualties, by Districts—1901.*

District.	Total number killed.	Where Employed.		Number of employès.	Total number of tons of coal mined	Number of employés to each death	Rate per 1,000.	Number of tons of coal mined to each death
		Under gr'und	Above gr'und					
First	11	*10	1	7,872	3,568,198	716	1.4	324,381
Second	†9	7	2	6,306	2,770,413	701	.4	307,824
Third	4	4	.....	3,760	1,985,205	940	1.1	496,301
Fourth	21	20	1	6,950	3,253,160	331	3.0	154,912
Fifth	17	16	1	6,837	5,416,504	402	2.5	318,618
Sixth	22	22	.....	6,871	5,796,586	312	3.2	263,481
Seventh	‡15	14	1	5,547	3,845,253	370	2.7	256,350
The State	99	93	6	44,143	26,635,319	4,459	2.2	2,690,044

* One man killed by falling down a shaft.
One man killed by falling timber in a sinking shaft, not included.
‡ One man killed by falling down a sinking shaft, not included.

The following table presents the fatal accidents for a series of 19 years:

TABLE XL.—*Fatal Accidents for 19 Years.*

Year.	Number killed.	Total number of employés.	Total tons of coal mined.	Number of employés to each life lost.	Rate per 1,000.	Number of tons of coal produced to each life lost.
1883	134	23,939	12,123,456	179.6	5.6	90,474
1884	46	25,575	12,208,075	566	1.8	265,393
1885	39	25,436	11,834,459	652.4	1.5	303,448
1886	52	25,846	11,175,241	497	2.0	214,909
1887	41	26,804	12,423,066	654	1.5	303,002
1888	55	29,410	14,328,181	534.7	1.9	260,512
1889	42	30,076	14,017,298	716.1	1.4	333,745
1890	53	28,574	15,274,727	539.1	1.9	286,316
1891	60	32,951	15,660,698	549	1.8	261,012
1892	57	33,632	17,062,276	580	1.7	313,372
1893	69	35,390	19,949,564	513	1.9	289,124
1894	72	32,635	17,113,576	453.3	2.2	237,688
1895	75	31,962	17,735,864	426.2	2.3	236,478
1896	77	33,054	19,786,626	429.2	2.3	256,969
1897	69	33,788	20,072,758	489.7	2.0	290,610
1898	75	35,026	18,599,299	467	2.1	247,991
1899	84	36,991	23,434,445	440	2.3	278,982
1900	94	39,384	25,153,929	419	2.4	267,595
1901	99	44,143	26,635,319	445.9	2.2	269,044
Average for 19 years.	68	31,822	17,083,624	467.6	*2.1	251,035

* Omitting the year 1883 the rate is 2 per 1,000 men employed.

Considering the fatal accidents for the past 19 years, and taking the average for this period, it is found that the number of deaths has increased 46 per cent; however, the tonnage has increased 56 per cent and the number employed 39 per cent.

The number employed to each life lost is 445.9 or 2.2 per 1,000. For 18 years, omitting, as is usual, the year 1883, when 69 men were drowned by the flooding of a mine at Braidwood, and ten met death by an explosion at Coulterville, the number employed to each death is 501, or 2 per 1,000.

In a recent statistical report of mines and quarries of Great Britain appears a carefully prepared table of fatal accidents in coal mines for the British Empire and all other countries of the world for the year

1900. In the colonies of Great Britain the number of deaths was 1,144; in all other countries 2,868, making a total of 4,012 for the world. The number for the United States is given as 1,472.

The death rate per 1,000 persons employed is given, for the British Empire, 1.29; other countries, 2.38; the United States, 3.29, and 1.92 for the world. If these computations were based on a series of years the figures would undoubtedly show a material change.

The Department of Labor, Washington, has published an extended article in its Bulletin of January, 1901, on accidents to labor in the United States. In the table of fatal accidents in bituminous coal mines, which includes 16 states, also British Columbia and Nova Scotia, for ten years, 1890–1899, the rate of deaths per 1,000 employés for the 16 states and the two British colonies is given as 2.64. The rate for Illinois is given as 2.07, Indiana 2.32, Iowa 2.08, West Virginia 3.36, British Columbia and Nova Scotia 3.00 and 3.78 respectively.

This statement discloses that for an accurate comparison a series of years should be considered.

The rate given for this State compares very favorably with the other important coal producing states and reflects creditably on our excellent mining laws and efficient system of mine inspection.

The following table presents the fatal accidents by causes and by districts:

TABLE XLI.—*Fatal Accidents, by Causes, 1901, with Totals and Averages for Twelve Years.*

CAUSE.	Totals.	DISTRICTS.							Percentages.
		First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh	
Blast explosions	3	.....	.....	2	.....	.....	.....	1	3.03
Bursting air pipe	1	.....	.....	.....	.....	1	.....	.....	1.01
Cages	1	.....	.....	.....	.....	.....	.....	1	1.01
Falling coal and rock	57	9	4	1	14	5	14	10	57.58
Falling down shaft	1	1	.....	.....	.....	.....	.....	.....	1.01
Falling off trestle	1	.....	1	.....	.....	.....	.....	.....	1.01
Falling timbers	2	.....	.....	.....	.....	1	.....	1	2.02
Falling from motor	1	.....	.....	.....	1	.....	.....	.....	1.01
Falling out of cart	1	.....	.....	.....	.....	1	.....	.....	1.01
Flying coal	8	.....	3	.....	2	.....	3	.....	8.08
Gas explosion	1	1	.....	.....	.....	.....	.....	.....	1.01
Kicked by horse	2	.....	.....	.....	1	.....	1	.....	2.02
Pit cars	11	.....	.....	1	2	2	4	2	11.11
Premature blasts	8	.....	.....	.....	1	7	.....	.....	8.08
Powder smoke	1	.....	1	.....	.....	.....	.....	.....	1.01
Totals, 1901	99	11	9	4	21	17	22	15	100.00
" 1900	94	18	7	5	24	22	11	7	
" 1899	84	7	12	4	11	14	22	14	
" 1898	75	12	10	4	19	5	8	17	
" 1897	69	11	9	4	10	19	11	5	
" 1896	77	18	11	4	14	16	4	10	
" 1895	75	16	12	16	15	16	.....	.....	
" 1894	72	19	9	10	19	15	.....	.....	
" 1893	69	17	5	12	10	25	.....	.....	
" 1892	57	10	1	11	24	11	.....	.....	
" 1891	60	15	4	9	12	20	.....	.....	
" 1890	53	16	5	10	11	11	.....	.....	
Aggregates	886	170	95	93	190	191	78	69	
Averages	73.8	14.2	7.9	7.8	15.8	15.9	6.5	5.8	

Here is presented a detailed list of the causes and number ascribed to each cause for the year, by districts.

In all the districts, excepting the third, the leading cause was the falling of coal and rock. The table also gives the accidents in each district for a series of 12 years, with aggregates and averages.

The table following presents the fatal accidents for a series of 14 years, by leading causes:

TABLE XLII.—*Fatal Accidents for Fourteen Years, by Leading Causes.*

Cause.	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	Totals.	Percentages for 14 years.
Black damp	....	....	....	....	....	....	....	....	....	....	....	2	....	....	2	0.20
lasts, explosions, etc..	9	3	4	11	4	6	8	12	9	11	11	4	17	3	112	11.42
Cages	2	4	4	4	4	4	8	4	5	....	2	5	4	1	51	5.20
Coal and other things falling down shaft	....	1	....	2	1	....	....	1	....	....	....	....	1	1	7	9.71
Falling coal, rock, etc...	33	26	36	33	28	48	43	38	41	46	43	51	51	57	574	58.52
alling down shaft.....	4	2	....	1	8	3	5	4	6	5	4	4	1	1	48	4.89
Falling props, etc.....	....	1	....	1	3	2	....	1	1	....	1	....	....	2	12	1.23
ire damp and gas.....	....	....	5	4	3	2	....	5	2	2	7	1	....	1	32	3.26
it-cars	6	5	3	2	6	2	6	5	7	1	2	6	11	11	73	7.44
Railroad cars.....	1	....	1	2	1	1	2	1	1	1	1	1	2	....	15	1.53
hite damp	....	....	....	....	....	....	....	....	....	....	....	1	1	....	2	0.20
Other causes	....	....	....	....	....	....	....	4	5	3	4	9	6	22	53	5.40
Totals	55	42	53	60	57	69	72	75	77	69	75	84	94	99	98	100.00

Possibly one of the most important features relating to accidents n mines is the causes to which may be attributed these accidents. The reports of this Bureau have maintained a uniform system of abulating this data, which is presented in the foregoing table.

In this grouping it will be seen that falls in the mines has been he chief cause for all the years presented. For this year falls in mines accounts for 57.58 per cent of the total, and 58.52 per cent for the 14 years. Blasts and explosions is next highest in percentage, ollowed by pit cars, cages and falling down shafts respectively.

Table XLIII presents the fatal accidents by falling roof and sides, and from other causes, for a series of 19 years:

TABLE XLIII.—*Fatal Accidents from Falls in Mines and from Other Causes, with Averages and Percentages for 19 Years.*

YEAR.	DISTRICT.														Total from falls in mines.	Total from other causes.	Total deaths.
	First.		Second.		Third.		Fourth.		Fifth.		Sixth.		Seventh.				
	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.			
1883	7	72	1	.....	13	5	11	5	8	12	....	....	....	....	40	94	134
1884	6	5	5	1	8	4	4	5	6	2	....	....	....	....	29	17	46
1885	6	4	.....	3	2	4	9	4	3	4	....	....	....	....	20	19	39
1886	9	5	3	3	5	6	8	1	7	5	....	....	....	....	32	20	52
1887	10	4	3	2	3	2	2	1	10	4	....	....	....	....	28	13	41
1888	16	3	1	4	5	5	5	3	6	7	....	....	....	....	33	22	55
1889	8	6	1	2	3	3	6	2	8	3	....	....	....	....	26	16	42
1890	15	1	1	4	8	2	5	6	7	4	....	....	....	....	36	17	53
1891	10	5	2	2	4	5	6	6	11	9	....	....	....	...	33	27	60
1892	8	2	1	.....	5	6	8	16	6	5	....	....	....	....	28	29	57
1893	15	2	3	2	8	4	6	4	16	9	....	....	....	....	48	21	69
1894	13	6	5	4	5	5	10	9	10	5	....	....	....	....	43	29	72
1895	8	8	7	5	7	9	7	8	9	7	....	....	....	....	38	37	75
1896	14	4	4	7	3	1	8	6	3	13	4	....	5	5	41	36	77
1897	8	3	4	5	3	1	10	....	11	8	8	3	2	3	46	23	69
1898	8	4	5	5	1	3	15	4	3	2	4	4	7	10	43	32	75
1899	6	1	4	8	2	2	9	2	7	7	14	8	9	5	51	33	84
1900	13	5	3	4	2	3	16	8	8	14	5	6	4	3	51	43	94
1901	9	2	4	5	1	3	14	7	5	12	14	8	10	5	57	42	99
19 years...	189	142	57	66	88	73	159	97	144	132	*49	*29	*37	*31	723	570	1,293
Averages.....	9.9	7.5	3	3.5	4.6	3.8	8.3	5.1	7.6	7	8	5	6.2	5.2	38	30	68
Percentages..	57.1	42.9	46.34	53.66	54.7	45.3	62.1	37.9	52.2	47.8	62.8	37.2	54.4	45.6	55.92	44.08	.....

*Six years.

The deaths from falls in mines this year is 57, and is the greatest number recorded in any one of the 19 years.

Considering the total number of deaths for the period covered by the table, the first district accounts for the greatest number, 331, followed by the fifth with 276, the fourth with 256, and the third and second with 161 and 123 respectively. The record for the fifth and sixth districts is only for six years, but for this period show averages equal to and higher than the other districts.

Table XLIV shows the percentages of fatal accidents caused by falls in mines, for 19 years:

TABLE XLIV.—*Percentages of Fatal Accidents Caused by Falling Roof or Sides, for 19 Years, by Districts.*

YEAR.	DISTRICT.							THE STATE.	
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	Total deaths.	Per cent.
1883.....	8.9	100	82.4	62.5	40	.....	.....	134	30
1884.....	27.3	83.3	66.7	44.4	75	.....	.....	46	56.5
1885.....	60	.....	33.3	69.2	43	.....	.....	39	51.3
1886.....	64.3	50	45.5	89	58.3	.....	.....	52	61.5
1887.....	71.4	60	60	66	71.4	.....	.....	41	68.3
1888.....	84.2	20	50	62.5	46.2	.....	.....	55	60
1889.....	57.1	33.3	50	75	72.7	.....	.....	42	62
1890.....	93.8	20	80	45.5	63 6	.....	.....	53	67.9
1891.....	66.7	50	44.4	50	55	.....	.....	60	55
1892.....	80	100	45.5	33.3	54.5	.....	.....	57	49.1
1893.....	88.2	60	66.6	60	64	.....	.....	69	69.6
1894.....	68.4	44.4	50	52.6	66.6	.....	.....	72	58.3
1895.....	50	58.3	43.75	46.67	56.3	.....	.....	75	50.7
1896.....	77.8	36.4	75	57.1	18.8	100	50	77	53.3
1897.....	72.7	44.4	75	100	57.9	72.7	40	69	66.7
1898.....	66.7	50	25	79	60	50	41.2	75	58.1
1899.....	85.7	33.3	50	81.8	50	63.6	64.3	84	60.7
1900.....	72.2	42.9	40	66.7	36.4	45.5	57	94	54.3
1901.....	81.8	44.4	25	66.7	29.4	63.6	66.7	99	57.6
19 years.	57.1	46.34	54.7	62.1	52.2	*62.8	*54.4	1,293	55.92

*Six years.

The highest percentage of these accidents, for the year, is shown in the first district, while the lowest is in the third, fifth and second respectively; the fourth and seventh each show 66.7 per cent, and the sixth 63.6.

For the 19 years the fourth district represents the highest percentage, the first 57 per cent, the third and fourth each show over 50 per cent, with the second, the lowest, 46.34 per cent.

For the six years represented by the sixth and seventh districts, the percentages are as high as in other districts for the long term of years.

Directing attention to the record for the State, for the 19 years, it is found that this class of accidents represents 56 per cent of the total number. In only two of the years, 1883 and 1892, the percentages fell below 50: the highest percentages are shown in the years 1887, 1890 and 1897.

The following table presents the fatal accidents by occupation and the family relationship of the killed during the year, by districts.

TABLE XLV.—*Occupation and Conjugal Relation of the Killed.*

Occupation.	Districts and Number of Fatal Casualties in Each							Total number of killed.	Conjugal Relations.				Number of dependents.
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.		Married.	Single.	Widows.	Children.	
Cartman	....	....	....	....	1	....	....	1	1	....	1	2	3
Carpenter's helper	....	....	....	....	....	....	1	1	....	1	....	....	....
Drivers	....	1	2	2	2	3	2	12	5	7	5	4	9
Laborers	....	1	....	....	....	1	1	3	1	2	1	....	1
Machine runner	....	....	....	....	....	....	2	2	2	....	2	6	8
Machine helpers	....	....	....	....	....	2	....	2	....	2	....	....	....
Miners	9	7	1	15	11	16	8	67	40	27	37	96	122
Motormen	....	....	1	1	....	....	....	2	1	1	1	1	2
Mine manager	....	....	....	....	1	....	....	1	....	1	....	....	....
Mine examiners	....	....	....	....	2	....	....	2	2	....	2	8	10
Pumpman	....	....	....	....	....	....	1	1	1	....	1	2	3
Track layers	1	....	....	....	....	....	....	1	1	....	1	5	6
Timbermen	1	....	....	2	....	....	....	3	3	....	3	7	10
Topman	....	....	....	1	....	....	....	1	1	....	1	4	5
Totals	11	9	4	21	17	22	15	99	58	41	55	135	178

Fourteen occupations are presented in the foregoing table; fully 9 per cent of these casualties occurred under ground. Those designated as miners proper, number 67 or 68 per cent of those killed, leaving 37 of the 55 widows and 96 of the 135 children. It is also shown that one mine manager and two mine examiners, all in the fifth district, are included in this presentation.

Non-Fatal Accidents.

The number of this class of accidents for the year is 422; this is 189 or 44 per cent less than reported for last year.

The following table presents the record for the year, by districts:

Table XLVI.—*Non-Fatal Accidents, by Districts, 1901.*

District.	Number of men injured.	Where Employed.		Total number of employés.	Total tons of coal mined.	Number of employés to one man injured.	Rate per 1,000.	Number of tons of coal mined to one man injured.
		Under ground.	Above ground.					
First	*76	72	4	7,872	3,568,198	104	9.7	46,937
Second	55	54	1	6,306	2,770,413	115	8.7	50,353
Third	22	22	.....	3,760	1,985,206	171	5.9	90,236
Fourth	108	105	3	6,950	3,253,160	64.3	15.6	30,122
Fifth	47	47	.....	6,837	5,416,504	145	6.9	115,245
Sixth	68	67	1	6,871	5,796,586	101	9.9	85,244
Seventh	*46	42	4	5,547	3,845,253	121	8.3	83,593
The State	422	409	13	44,143	26,635,319	104.6	9.56	63,117

* One falling down shaft.

The fourth district shows the greatest number; in the third and fifth districts all these accidents were under ground; for the State 409 or 97 per cent occurred in the same location.

The third district shows the greatest number of employés to one man injured, and consequently, the smallest rate per 1,000 employed. The fifth district shows the greatest number of tons per man injured.

The following table presents the non-fatal accidents for a series of 19 years:

TABLE XLVII.—*Non-Fatal Accidents for Nineteen Years.*

Year.	Number of men injured.	Total number of employés.	Total number of tons of coal mined.	Number of employés to one man injured	Rate per 1,000.	Number of tons of coal produced to one man injured.
1883	231	23,939	12,123,456	104	9.6	52,482
1884	197	25,575	12,208,075	130	7.7	61,970
1885	176	25,446	11,834,459	145	6.9	67,241
1886	171	25,846	11,175,241	151	6.6	66,126
1887	180	26,804	12,423,066	149	6.7	69,017
1888	179	29,410	14,328,181	164	6.1	80,046
1889	201	30,076	14,017,298	150	6.7	69,738
1890	294	28,574	15,274,727	97	10.3	51,955
1891	367	32,951	15,660,698	90	11.1	42,672
1892	370	33,632	17,062,276	91	11.0	46,114
1893	403	35,390	19,949,564	88	11.4	49,503
1894	521	32,635	17,113,576	63	16.0	32,848
1895	605	31,962	17,735,864	53	18.9	29,315
1896	672	33,054	19,786,626	49	20.3	29,444
1897	518	33,788	20,072,758	65	15.3	38,751
1898	438	35,026	18,599,299	80	12.5	42,464
1899	597	36,991	23,434,445	62	16.1	39,254
1900	611	39,384	25,153,939	65	15.5	41,168
1901	422	44,143	26,635,319	104.6	9 56	63,117
Avs. 19 years...	377	31,822	17,083,624	84.4	11.8	45,315

This table corresponds in data with table XL, fatal accidents, and gives in detail the non-fatal accidents for 19 years. This year the number is 422; this is the smallest number since 1893. However, this year the record of these accidents was only taken for those who lost thirty days or more of time, while in former years the record was taken for those losing one week or more; consequently the number employed, and the tons produced to one man injured, is materially increased and the rate per 1,000 correspondingly decreased.

The following table presents the non-fatal accidents by causes:

TABLE XLVIII.—*Non-Fatal Accidents by Occupation and Districts, with Totals and Percentages.*

Occupation.	Districts.							Totals.	Per-centages
	First.	Second	Third.	Fourth	Fifth	Sixth.	Sev-enth.		
Blacksmiths	2							2	0.48
Cagers		2		2	2	1		7	1.66
Car trimmers						1		1	0.24
Coal operators		1						1	0.24
Drivers	11	10	4	34	11	14	11	95	22.51
Engineers		1					1	2	0.47
Gripmen				2	1			3	0.71
Laborers	1	4		4	1	1	6	17	4.03
Loaders				8		1	1	10	2.37
Machine runners					4	3	2	9	2.13
Machine helpers				2		3		5	1.18
Miners	54	34	17	49	25	40	23	242	57.35
Mine managers							1	1	0.24
Sinkers		1			1			2	0.48
Trackmen	4			2		1		7	1.66
Trappers		1		2	1	1		5	1.18
Timbermen	1	1	1	2	1	2	1	9	2.13
Topmen	3							3	0.71
Weighmen				1				1	0.24
Totals	76	55	22	108	47	68	46	422	100.00

Here is presented a classification of 19 occupations; the class designated as miners is 242, or 57 per cent of the total number; those injured, employed underground, as in the fatal accidents, constitute 91 per cent of these accidents.

Next to the miners, the drivers have the most hazardous occupation.

The next table presented shows the conjugal relations of the injured for the year:

TABLE XLIX.—*Conjugal Relation of the Injured and the Time Lost from Injuries.*

DISTRICT.	Total.	Married.	Single.	Children	Dependents.	No. of men reported as losing time.	Total days lost.	Average days lost per man.
First.....	76	56	20	148	153	68	3,349	44
Second	55	26	29	74	100	44	2,573	46.7
Third.....	22	13	9	31	43	22	1,161	53
Fourth	108	42	66	76	92	89	4,451	41.2
Fifth	47	24	23	57	81	39	1,940	41.2
Sixth	68	30	38	107	134	63	3,670	54
Seventh	46	20	26	48	64	37	1,968	42.8
The State....	422	212	210	541	667	362	19,112	52.8

This exhibit is that an equal number of the injured were married and single; the children dependent was 541, while the total dependents was 667. The total number of men losing time is reported as 362, leaving 60 who had not recovered from their injuries at the time of closing this report.

The average number of days lost per man is equal to two months working days.

Table L presents the causes of the non-fatal accidents:

TABLE L.—*Causes of Non-Fatal Accidents, by Districts.*

CAUSE.	DISTRICTS.							The State.	Per-centages.
	First.	Second	Third.	Fourth	Fifth	Sixth.	Seventh.		
Blown out shots	.....	.....	.....	2	.....	.....	.....	2	0.48
Cable, chain, wire, etc.	.....	.....	.....	2	1	.....	.....	3	0.70
Cages	3	2	1	.....	1	2	1	10	2.4
Explosions gas, fire damp	3	.....	.....	.....	.....	.....	.....	3	0.70
Explosions of powder	.....	.....	3	2	.....	.....	.....	5	1.2
Falling coal and other things	2	4	.....	.....	.....	1	.....	7	1.7
Falling coal and rocks	54	32	12	60	17	38	20	233	55.21
Falling down shaft	1	.....	.....	.....	1	.....	2	4	0.95
Falling timbers	1	.....	.....	3	.....	3	.....	7	1.7
Flying coal	.....	.....	2	.....	.....	6	1	9	2.10
Kicked by mule	1	.....	.....	1	1	.....	.....	3	0.70
Machines and machinery	.....	.....	.....	4	1	2	3	10	2.4
Pit-cars	10	15	4	33	17	16	18	113	26.7
Premature blasts	.....	2	.....	.....	8	.....	1	11	2.6
Railroad cars	1	.....	.....	.....	.....	.....	.....	1	0.23
Steam	.....	.....	.....	1	.....	.....	.....	1	0.23
Totals	76	55	22	108	47	68	46	422	100.00

This table presents 16 different causes bringing about the non-fatal injuries. The main cause of all injuries this year, falls in mines and pit cars, do not vary materially from those of former years. The number injured in the fourth and first districts comprise 50 per cent of those sustaining injuries by falls in the mines; the number injured by pit-cars in the fourth district largely exceeds that of any of the other districts.

Table LI presents the data of the number of accidents, caused by falls in mines and other causes, for a series of 19 years:

TABLE LI.—*Non-Fatal Accidents from Falling Roof and Sides, and Other Causes, with Percentages Caused by Falling Roof—19 Years.*

YEAR.	NON-FATAL ACCIDENTS.				YEAR.	NON-FATAL ACCIDENTS.			
	Total.	Falling roof and sides.	All other causes.	Per cent caused by falling roof or sides.		Total.	Falling roof and sides.	All other causes	Per cent caused by falling roof or sides.
1883.....	231	130	101	56.28	1893.....	403	254	149	63.03
1884.....	197	135	62	68.53	1894.....	521	294	227	56.43
1885.....	176	118	58	67.00	1895.....	605	338	267	55.87
1886.....	171	109	62	63.74	1896.....	672	373	299	55.51
1887.....	180	124	56	68.88	1897.....	518	310	208	59.85
1888.....	179	112	67	62.58	1898.....	438	252	186	60.87
1889.....	201	129	72	64.17	1899.....	597	335	262	56.12
1890.....	294	196	98	66.66	1900.....	611	323	288	52.86
1891.....	367	227	140	61.85	1901.....	422	233	189	55.21
1892.....	370	234	136	63.25	Totals..	7,153	4,226	2,927	59.08

It has been explained that the number injured was those who had lost 30 days or more; however, the proportion injured by falling roof and sides this year is without material change from that of previous years, and furnishes 59 per cent for the 19 years.

The following table presents the number of killed and injured; in parallel columns for 19 years, with percentages:

TABLE LII.—*Total Number Killed and Injured with Percentages of All Accidents Caused by Falling Roof or Sides, for Nineteen Years—1883–1901.*

YEAR.	NUMBER.			PER CENT BY FALLING ROOF AND SIDES.		
	Killed.	Injured.	Total.	Killed.	Injured.	Total.
1883	134	231	365	30	56.28	47.7
1884	46	197	243	56.5	68.53	66.25
1885	39	176	215	51.3	67	64.18
1886	52	171	223	61.5	63.74	63.22
1887	41	180	221	68.3	68.88	68.77
1888	55	179	234	60	62.58	61.97
1889	42	201	243	61.9	64.17	63.78
1890	53	294	347	67.9	66.66	66.86
1891	60	367	427	55	61.85	60.88
1892	57	370	427	49.1	63.25	61.36
1893	69	403	472	69.6	63.03	63.98
1894	72	521	593	58.3	56.43	56.82
1895	75	605	680	50.7	55.87	55.59
1896	77	672	749	53.3	55.51	55.27
1897	69	518	587	66.7	59.85	60.65
1898	75	438	513	57.33	60.87	60.34
1899	84	597	681	60.71	56.12	56.68
1900	94	611	705	54.3	52.86	53.1
1901	101	422	523	56.43	55.21	55.45
19 years	1,295	7,153	8,448	55.9	59.08	58.58

Referring to the percentages, in the foregoing table, it will be observed that there is but slight variation between the killed and injured by falling roof and sides. For the 19 years these percentages are almost equal.

The final presentation of casualties in mines is shown in the following table:

TABLE LIII.—*Percentages of Increase and Decrease from Year to Year of Men Employed, Tons Produced, Men Killed and Men Injured.*

YEAR.	MEN EMPLOYED.		TONS PRODUCED.		KILLED.		INJURED.	
	Increase	Decrease.	Increase	Decrease.	Increase	Decrease.	Increase	Decrease.
1883 to 1884	6.83		0.7			65.67		14.72
1885		0.5		3.06		15.22		10.66
1886	1.57			5.57	33.33			2.84
1887	3.71		11.17			21.15	5.26	
1888	9.72		15.34		34.15			0.56
1889	2.26			2.17		23.64	12.29	
1890		5.00	8.97		26.2		46.27	
1891	15.31		2.53		13.2		24.83	
1892	2.07		8.95			5.00	0.82	
1893	5.23		16.92		21.05		8.92	
1894		7.78		14.22	4.35		29.28	
1895		2.06	3.64		4.17		16.12	
1896	3.42		11.56		2.67		11.07	
1897	2.22		1.45			10.4		8.04
1898	3.66			7.34	8.7			15.44
1899	5.61		26.00		12.00		36.3	
1900	6.47		7.34		1.19		2.35	
1901	12.1		5.88		7.4			30.9

The showing is the percentages of increase and decrease in men, tons, killed and injured.

Recapitulations.

The usual presentation of a complete recapitulation, by districts, of all the essential information concerning the mines in the State is shown in the tables following:

The State—Recapitulation by Districts—Counties, Mines and Production.

District.	Counties.	Mines.			Total tons of coal produced.	Graded Product—Tons of—					
		Total number.	Shipping.	Local.		Lump.	Mine-run.	Egg.	Nut.	Pea or screenings.	Slack or waste.
First	5	80	39	41	3,568,198	2,384,343	242,795	45,870	100,331	734,938	59,921
Second	8	187	26	161	2,770,413	1,932,918	255,523	24,387	75,864	260,377	221,344
Third	8	225	53	172	1,985,205	1,172,376	437,556	2,634	94,658	185,119	88,462
Fourth	7	81	33	48	3,253,160	995,415	1,751,321	24,532	183,693	188,801	109,398
Fifth	9	102	46	56	5,416 504	2,462,076	1,578,480	75,377	208,966	863,561	228,044
Sixth	5	110	77	33	5,796,586	3,114,341	1,338,891	37,438	259,310	865,118	181,488
Seventh	11	130	57	73	3,845,253	1,259,655	1,277,774	276,358	290,305	569,677	171,484
Totals	53	915	331	584	26,635,319	13,321,124	6,882,740	486,596	1,217,127	3,667,591	1,060,141

The State—Recapitulation by Districts—Value of the Product and Powder Consumed.

District.	Aggregate value of total product.	Aggregate Value of the Different Grades of Coal at the Mines.						Number of kegs of powder used for blasting coal.
		Lump.	Mine-run.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
First	$4,014,342	$3,223,870	$ 323,667	$ 65,089	$ 89,924	$311,020	* 772	$ 31,425
Second	3,628,527	2,916,108	353,428	35,622	91,017	139,044	93,308	34,484
Third	2,067,705	1,437,269	436,540	3,383	75,406	79,819	35,288	79,675
Fourth	3,323,727	1,335,236	1,678,696	26,511	162,685	84,590	36,009	68,690
Fifth	4,601,089	2,566,997	1,368,151	76,573	173,963	363,590	51,815	140,149
Sixth	4,553,967	2,941,110	1,082,562	37,268	154,499	319,873	18,655	98,341
Seventh	3,237,049	1,306,749	1,082,746	282,897	235,823	301,865	26,969	98,320
Totals	$25,418,983	$15,727,339	$6,325,790	$527,343	$983,317	$1,599,801	$262,816	551,084
Average value per ton	$0.9543	$1.181	$0.919	$1.086	$0.808	$0.436	$0.269	

* Value of 3,085 tons; 56,836 tons no value.

The State—Recapitulation by Districts—Disposition of Output, Employés, Days of Operation and Boilers at the Mines.

District.	Distribution of the Output.				Employes.			Average Days of Operat'on		Steam Boilers.	
	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at the mines.	Miners	All other employés.	Total.	All mines.	Shipping mines.	Number of mines using.	Number in use. (Horizontal.)
First.....	2,987,085	95,953	316,469	168,691	5,888	1,984	7,872	222	230	48	118
Second	2,298,793	54,974	322,077	94,569	4,668	1,638	6,306	166	214	*70	144
Third.....	1,567,596	35,161	321,720	60,728	2,882	878	3,760	163	188	73	123
Fourth	2,615,682	135,500	360,701	141,277	3,678	3,272	6,950	159	186	34	139
Fifth	4,701,972	202,618	305,657	206,257	4,985	1,852	6,837	175	207	51	197
Sixth	4,940,727	274,299	255,058	326,502	4,873	1,998	6,871	218	224	81	237
Seventh ...	3,439,364	148,187	130,793	126,909	3,855	1,692	5,547	147	183	59	173
Totals..	22,551,219	946,692	2,012,475	1,124,933	30,829	13,314	44,143	.....	.....	416	1,130
Averages ..	.....	.....	.....	.....	.....	.....	.....	174 3	204.7	....	.....

* Six mines using six upright boilers.

The State—Recapitulation by Districts—Average Value Per Ton at the Mines, Tons Mined by Hand and by Machine, Average Price Paid for Hand and Machine Mining.

District.	Average Value of the Different Grades of Coal Per Ton at the Mines.							Tons Mined by—		Average Price Paid Per Gross Ton for—	
	All grades	Lump.	Mine run.	Egg.	Nut.	Pea.	Slack.	(Gross weight) Hand.	Machine	Hand mining.	Machine mining.
First.....	$1.125	$1.35	$1.33	$1.42	$0.896	$0.424	*$0.25	†3,550,213	9,128	$0.7251	$0.51
Second.....	1.3098	1.509	1.383	1 46	1.20	0.534	0.422	‡2,448,892	.....	0.72	.....
Third.....	1.042	1.226	0.968	1.284	0.764	0.431	0.399	⁂1,749,822	16,957	0.555	0.455
Fourth	1.022	1.341	0.959	0.807	0.886	0.448	0.329	‖3,082,629	69,938	0.521	0.445
Fifth	0.8495	1.043	0.867	1.016	0.833	0.421	0.227	¶3,423,134	1,960,887	0.4978	0.42
Sixth	0.7856	0.944	0.809	0.996	0.596	0.370	0.103	⁇3,009,971	2,780,594	0.485	0.418
Seventh	0.8418	1.037	0.847	1.024	0.812	0.53	0.157	2.908,118	937,135	0.445	0.377
Totals ...	.....	.....	.....	.....	.....	.....	.....	20.172,779	5,774,639	.....	.....
Averages....	$0.9543	$1.181	$0.919	$1.086	$0.808	$0.436	$0.269	.....	.....	$0.564	$0.4125

* Average value 3,185 tons.
† 8,857 tons mined by hand and paid for by the day.
‡ 321,521 tons screened coal; average price paid for mining $0.932 per ton.
⁂ 218,426 tons screened coal; average price paid for mining $0.845 per ton.
‖ 28,050 tons screened coal; average price paid for mining $1.367 per ton; 72,543 tons mined by hand and paid for by the day.
¶ 32,063 tons screened coal; average price paid for mining $0.988 per ton; 420 tons mined by hand and paid for by the day.
⁇ 6,021 tons mined by hand and paid for by the day.

Physical Character

OF THE

COAL MINES IN ILLINOIS.

PHYSICAL CHARACTER OF THE COAL MINES IN ILLINOIS.

Supplemental to the foregoing detailed exhibits of the year, and to relieve the somewhat crowded county tables shown in the reports of the several inspectors, the following tabulation setting forth the physical characteristics of the mines of the State, has been prepared:

The arrangement of this table is by the geological number of the different seams of coal, and alaphabetically by counties. The name of every operator is also given with the postoffice address of the mine; the depth of coal below the surface; the thickness of the seams; the manner of working; the character of the opening, and the number of tons produced in each mine.

Physical Character of the Coal Mines of the State, by Geological Seams and Counties.

BROWN COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
Henry Cornicle	Ripley	1	30	2	P. R.	Dr.	292
Wm. Lindsay	Mt. Sterling	1	30	2	"	"	280
E. R. Kendrick	Marden	1	50	2	"	"	200
John Geisler	Mt. Sterling	1	30	2	"	"	180
Henry Friday	Ripley	1	30	2	"	"	152
J. D. Gross	Camp Point	1	30	2.6	"	"	142
Otis Buller	Mt. Sterling	1	30	2	"	"	100
John Poppleston	"	1	30	2	"	"	100
J. Alexander	"	1	30	2	"	"	48
Cal Clayton	Ripley	1	40	2	"	"	36
Strip mines	Camp Point	....	30	2.6	"	"	420
Totals—10 mines		....	.....	.....	.....	....	1,950

Physical Character of Coal Mines—Continued.

CALHOUN COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
Thomas Pressed Brick Co	Golden Eagle	1	Strip	2.4	P. R.	Dr.	5,204

CHRISTIAN COUNTY.

Assumption Coal Co	Assumption	1	1,008	3.6	L.W.	Sh.	73,300

FULTON COUNTY.

R. Blogden	Lamon	1	80	3.6	P. R.	Dr.	820
G. Van Winkle	Avon	1	35	2.6	"	Sh.	200
Totals—2 mines							1,020

GREENE COUNTY.

Thomas Griffiths	Whitehall	1	50	*Pkt.	P. R.	Sh.	2,880
Edward Griffiths	Roodhouse	1	50	2.6	"	"	2,100
Edward Oxley	"	1	25	2.6	"	"	1,400
James Little	"	1	20	2.6	"	"	1,150
S. D. Hudson	"	1	25	2.6	"	"	1,050
Chas. Simmons	"	1	20	2.6	"	"	820
A. Simmons	"	1	25	2.6	"	"	326
Sowers & Brown	"	1	Drift	2.6		Dr.	268
James Bigley	"	1	"	2.6		"	210
C. Commings	"	1	"	2.6		"	182
George Metford	"	1	"	2.6		"	175
Henry Thompson	"	1	"	2.6		"	172
Totals, 12 mines—7 sh., 5 dr.							10,733

*Pocket.

HENRY COUNTY.

John McCaffrey	Blossomburg	1	45	4.6	P. R.	Sl.	5,200
James Kershaw	Briar Bluff	1	Dr.	4	"	Dr.	3,162
M. M. Aldrich	Geneseo	1	30	4	"	Sh.	1,620
J. Summerson	Coal Valley	1	Dr.	4	"	Dr.	1,440
Tim Downing	Briar Bluff	1	30	3	"	Sl.	450
Maurice Cadigan	"	1	Dr.	3	"	Dr.	300
James Irwin	Green River	1	63	3.6	"	Sh.	150
Totals, 7 mines—2 sh., 2 sl., 3 dr.							12,322

Physical Character of Coal Mines.—Continued.

JACKSON COUNTY.

Name of Operator.	Postoffce Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
Willis Coal & Mining Co	Sato	1	40	6	P. R.	Sl.	18,000
Wining Coal & Mining Co	"	1	12	6	"	"	3,400
E. E. Poole	Murphysboro	1	60	2.8	"	"	2,360
John Juber	Oraville	1	36	3.6	"	"	400
S. S. Jones	Sato	1	40	6	"	Sh.	320
Schmidgall Coal Co	Murphysboro	1	108	3 9	"	"	300
S. Aryus	Sato	1	22	6	"	Sl.	240
Total 7 mines—2 sh., 5 sl							25,020

MADISON COUNTY.

Nathan Sydall	North Alton	1	80	2.6	P. R.	Sh.	1,480
Mallory & Ball	"	1	100	2.6	"	"	1,260
Frank Cortcamp	"	1	60	2.6	"	"	500
James Tibbets	"	1	75	2.6	"	"	195
John Schultz	East Alton	1	30	3	"	Dr.	120
Total 5 mines—4 sh., 1 dr							3,555

MERCER COUNTY.

Empire Coal Co., No. 1	Gilchrist	1	140	4.3	P. R.	Sh.	166,120
Coal Valley Mining Co., No. 2	Sherrard	1	203	3.6	"	"	158,598
Alden Coal Co	Wanlock	1	135	4.6	"	"	144,086
Coal Valley Mining Co., No. 1	Cable	1	60	4	"	"	57,817
Empire Coal Co. No. 1	Gilchrist	1	100	4	"	"	10,743
G. W. Martin	Laoc	1	40	4	"	"	3,596
William Penman	Preëmption	1	48	4	"	"	3,000
U. S. Clay Mfg. Co	Griffin	1	35	2.6	"	"	2,730
Lilliman & Co	Cable	1	50	4.6	"	"	2,600
Peter Docherty	Preëmption	1	60	4	"	"	2,560
W. P. Williams	Laoc	1	60	4	"	"	2,133
J. B. Martin	"	1	65	4	"	"	1,920
James & Boden	Viola	1	30	4	"	"	1,828
B. B. Peterson	Cable	1	36	3.6	"	"	1,600
Joseph Williams	Preëmption	1	36	4.6	"	"	1,280
M. A. Beers & Son	Cable	1	Dr.	2.6	"	Dr.	1,208
S. J. Young	Griffin	1	30	2.6	"	Sh.	920
Edward Boden	Preëmption	1	60	4	"	"	864
Total 18 mines—17 sh., 1 dr							563,603

MONTGOMERY COUNTY.

Litchfield Mining & Power Co	Litchfield	1&2	684	5	P. R.	Sh.	66,257

Physical Character of Coal Mines.—Continued.

ROCK ISLAND COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
John J. Price	Coal Valley	1	40	4	P. R.	Sh.	20,000
John Hynd	Loding	1	50	4	"	"	9,500
T. S. Silvis	Carbon Cliff	1	90	4	"	"	9,065
Loding Bros	Loding	1	67	4	"	"	5,112
T. S. Silvis	Carbon Cliff	1	35	3.8	"	Sl.	4,414
Black Diamond Coal Co	Coal Valley	1	50	3.6	"	Sh.	2,808
William Parker	Milan	1	53	3.6	"	"	2,600
Jamison & Allison	Loding	1	40	3.6	"	"	1,960
Stone Bros	Carbon Cliff	1	60	3	"	"	1,480
Sackville Bros	Coal Valley	1	50	4.6	"	"	1,398
W. E. Wynn	"	1	85	3.6	"	"	1,140
Stoddard & Dammerson	Coal Valley	1	Dr.	4	"	Dr.	1,000
Guckert Bros	Hampton	1	56	3.6	"	Sh.	904
James Sackville	Coal Valley	1	60	3.6	"	"	660
Grath Bros	Carbon Cliff	1	Dr.	3	"	Dr.	486
John Summerson	Coal Valley	1	30	3.6	"	Sl.	342
David Walsh	Milan	1	48	3.6	"	Sh.	300
Fred Vonach	Hampton	1	70	3.6	"	"	230
Total 18 mines—14 sh., 2 sl., 2 dr.							63,399

SCOTT COUNTY.

W. H. Bates & Co	Winchester	1	96	2.6	P. R.	Sh.	23,153
John McGuire	Alsey	1	Dr.	2.6	"	Dr.	1,218
W. G. Parker	Winchester	1	"	2.6	"	"	1,213
Jackson Jones	"	1	"	2.6	"	"	702
Edward Romft	Bluffs	1	"	2.6	"	"	560
P. Berry	Exeter	1	"	2.6	"	"	150
M. Six	"	1	"	2.6	"	"	140
H. H. Meier	Bluffs	1	"	2.6	"	"	120
E. Berry	Exeter	1	"	2.6	"	"	100
H. H. Brockhouse	Neeleyville	1	"	2.6	"	"	100
T. R. Riggins	Chapin	1	"	2.6	"	"	30
Total 11 mines—1 sh., 10 dr							27,486

WARREN COUNTY.

Charles McCartney	Alexis	1	70	4	P. R.	Sh.	5,000
Cook & Rohr	"	1	40	4	"	"	2,380
Samuel McKahn	"	1	57	4	"	"	1,704
John Simcock	"	1	60	4	"	"	1,600
Total 4 mines							10,684
Grand total							864,533

Physical Character of Coal Mines—Continued.

BUREAU COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
Spring Valley Coal Co., 1	Spring Valley	2	345	3.6	L. W.	Sh.	337,156
Spring Valley Coal Co., 2	"	2	342	3.6	"	"	311,456
Spring Valley Coal Co., 3	"	2	481	3.6	"	"	267,941
Whitebreast Fuel Co	Ladd	2	465	3 6	"	"	203,964
Chi., Wil. & Ver. Coal Co	Seatonville	2	410	3.6	"	"	193,801
Marquette 3d Vein Coal Co	Marquette	2	302	3.6	"	"	184,705
Spring Valley Coal Co., 5	Spring Valley	2	420	3.6	"	"	6,292
Total, 7 mines							1,505,315

CASS COUNTY.

William Shore	Chandlerville	2	40	3	P. R.	Sh.	1,400
Chris. Nelson	"	2	40	3	"	"	1,050
Total, 2 mines							2,450

FULTON COUNTY.

A. E. Mack	Lewistown	2	85	2.6	P. R.	Sh.	2,880
Samuel Lowry	"	2	60	2.6	"	"	2,100
Isaac Bath	"	2	75	2.6	"	"	1,200
A. Eyman	"	2	35	2.6	"	Sl.	1,020
L. Chapin	"	2	60	2.6	"	"	780
Joseph Gausell	"	2	30	2.6	"	"	700
Joseph Wilson	Astoria	2	60	2.6	"	Dr.	300
William Peters	"	2	60	2.6	"	"	250
E. R. Lannery	"	2	40	2.6	"	"	120
A J. Rockwell	"	2	60	2.6	"	"	100
Total, 10 mines—3 sh., 3 sl., 4 dr.							9,450

GRUNDY COUNTY.

Wil. Coal M. & Mfg. Co., 4	Diamond	2	105	3	L. W.	Sh.	223,583
Chi., Wil. & Ver. Coal Co., 1	So. Wilmington	2	195	3.3	"	"	220,729
Braceville Coal Co	Braceville	2	103	3.2	"	"	143,776
Big 4 Wilmington Coal Co., 2	Coal City	2	90	3	"	"	143,242
Star Coal Co., 3	Carbon Hill	2	99	3	"	"	112,718
Big 4 Wilmington Coal Co., 3	Coal City	2	85	3	"	Sl.	97,460
Star Coal Co., 1	Carbon Hill	2	113	3	"	Sh.	94,822
Star Coal Co., 2	"	2	98	3	"	"	81,469
Wilmington Star Mine Co., 5	Coal City	2	101	3	"	"	79,368
Star Coal Co., 4	Carbon Hill	2	75	3	"	Sl.	42,843
Wilmington Star Mine Co., 6	Coal City	2	90	3	"	Sh.	17,136

Physical Character of Coal Mines—Continued.

Grundy County—Concluded.

Name of Operator.	Postoffice Address of Mines	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
Wilmington Coal Mining & Mfg. Co.	Diamond	2	110	3	L.W.	Sh.	13,681
J. T. Espley & Co	Morris	2	60	3	P. R.	"	3,700
William Wood	"	2	61	2.9	"	"	3,200
Frank Gilbride	"	2	80	3.2	"	"	2,800
James Heather	"	2	40	2.8	"	"	2,753
Fleming & Byrne	"	2	48	3	"	"	2,100
Morris Carbon Coal Co	"	2	51	3	"	"	2,045
James Bell	"	2	41	2.6	"	"	1,762
J. H. Cryer	"	2	62	2.9	"	"	1,550
Tasdal & Anestad	"	2	97	2.9	"	"	1,055
John Telfer	"	2	20	2.8	"	"	700
Nelson Bros	"	2	60	2.8	"	"	600
Total, 23 mines—21 sh., 2 sl.	12 l. w., 11 p. r.	....	.....	.....	.....	....	1,293,092

HANCOCK COUNTY.

Meridith Bros	Augusta	2	50	2.6	L.W.	Sl.	3,055
L. Bennett	"	2	30	2.6	P. R.	Sh.	500
J. W. Marks	"	2	30	2.6	"	"	480
Geo. Willey	"	2	30	2.6	"	"	350
S. Jones	"	2	30	2.6	"	"	270
Total, 5 mines—4 sh., 1 sl.	1 l. w., 4 p. r.	....	.....	.....	.....	....	4,655

JACKSON COUNTY.

Big Muddy Coal & Iron Co., 6	Murphysboro	2	150	6.6	P. R.	Sh.	275,442
" " Harrison	"	2	150	6.3	"	"	197,880
Gartside Coal Co., 4	"	2	148	6.6	"	"	73,078
" " 3	"	2	146	6.6	"	"	33,299
" " 1	"	2	121	6.6	"	"	26,951
H. Moss	Vergennes	2	30	3.4	"	Sl.	400
John Campbell	"	2	30	3.6	"	"	320
Marion Owens	"	2	24	3.4	"	"	280
Total, 8 mines—5 sh., 3 sl.	1 l. w., 4 p. r.	....	.....	.....	.....	....	607,650

JOHNSON COUNTY.

New Burnside Coal Co	New Burnside	2	30	3.8	P. R.	Sh.	2,500

KANKAKEE COUNTY.

Gardner-Wilmington Coal Co	Clark City	2	108	3	P. R.	Sh.	39,013

Physical Character of Coal Mines—Continued.

KNOX COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
H. E. Bonney	Abingdon	2	20	2	P. R.	Sl.	1,800

LA SALLE COUNTY.

LaSalle Co. Carbon Coal Co	LaSalle	2	392	3.6	L.W.	Sh.	163,031
" " Union	"	2	375	3.6	"	"	153,655
" " 1	"	2	440	3.6	"	"	151,308
Emerson Hakes	Rutland	2	500	2.9	"	"	120,900
Oglesby Coal Co	Oglesby	2	464	3.6	"	"	117,843
LaSalle Co. Carbon C. Co., Rockwell	LaSalle	2	390	3.6	"	"	106,914
James Cahill	Peru	2	350	3	"	"	79,000
Marseilles L. & W. P. Co	Marseilles	2	120	2.10	"	"	25,620
Standard Coal Co	Seneca	2	100	2.9	"	"	5,272
Illinois Zinc Co	Peru	2	115	3	"	Dr.	3,225
James McCullough	Ottawa	2	60	2.4	P. R.	"	3,065
Wilsman Coal Co	Wilsman	2	73	3.2	"	Sh.	3,060
L. W. Brewer	Ottawa	2	55	2.4	"	Dr.	500
John Delbridge	"	2	45	2.4	"	"	350
F. M. Fishburn	"	2	60	2.4	"	"	300
Daniel Vazaine	"	2	60	2.4	"	"	200
William Saxby	"	2	70	2.4	"	"	150
George F. Meyer	"	2	50	2.4	"	"	125
James Edson	"	2	60	2.4	"	"	110
Total, 19 mines—10 sh., 9 dr.	10 l. w., 9 p. r.	....	.....	.....	.....	....	934,628

LIVINGSTON COUNTY.

Cardiff Coal Co	Cardiff	2	255	12 3	P. R. L.W	Dr. "	132,847
Pontiac Coal Co	Pontiac	2	446	5 2.8	P. R. L.W.	" "	56,892
Total—2 l. w, 2 p. r.		....	.....	.....	.....	....	189,739

MARSHALL COUNTY.

Devlin Coal Co	Toluca	2	512	2.9	L.W.	Sh.	215,908
Wenona Coal Co	Wenona	2	555	2.10	"	"	88,072
Marquette Coal Co	Sparland	2	164	2.6	"	"	11,615
Total—3 mines		....	.....	.....	.....	....	315,595

Physical Character of Coal Mines—Continued.

McDONOUGH COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
Staunton Coal Co	Colchester	2	65	2.4	P. R.	Sh.	13,550
Rippetoe & Rundle	"	2	65	2.4	"	"	10,333
John Berry	Macomb	2	40	2.4	"	"	1,840
John Nee	Colchester	2	40	2.4	"	Dr.	1,700
William Williams	"	2	50	2.4	"	"	1,500
Chas. Atkinson	"	2	40	2.4	"	"	1,500
Dull Bros	Tennessee	2	40	2.4	"	"	1,450
Frank Taylor	Blandinville	2	40	2.4	"	"	1,200
John Wilson	Colchester	2	50	2.4	"	"	1,200
O. Baird & Son	"	2	40	2.4	"	"	1,160
Thos. Wilson & Son	Blandinville	2	40	2.4	"	"	1,080
Myers & Wilkinson	La Harpe	2	40	2.4	"	Sl.	1,000
Alla. Vanter	Colchester	2	40	2.4	"	Dr.	975
M. McClure	"	2	50	2.4	"	"	954
Wm. Robinson	"	2	40	2.4	"	"	900
J. Zimmerman	"	2	30	2.4	"	"	750
Wm. Edington	Macomb	2	40	2.4	"	Sh.	750
Wm. Kepling	Colchester	2	30	2.4	"	Dr.	650
McIntosh & Postal	Industry	2	40	2.4	"	"	650
Wm. Hodgan	Colchester	2	40	2.4	"	"	600
M. Humes	"	2	50	2.4	"	"	550
Geo. Foster	"	2	50	2.4	"	Sh.	520
Hillery Bros	"	2	50	2.4	"	"	500
Lewis Lewis	"	2	40	2.4	"	Sl.	450
Amos Eben	"	2	40	2.4	"	Dr.	450
J. Gilligan	Industry	2	40	2.4	"	"	415
G. Palonus	Colchester	2	30	2.4	"	"	400
Joseph Bunt	"	2	30	2.4	"	"	400
W. Parten & Son	Macomb	2	40	2.4	"	Sh.	360
Eli Hillard	Colchester	2	30	2.4	"	Dr.	300
R. Daugherty	Table Grove	2	40	2.4	"	Sl.	280
James Whalen	Colchester	2	40	2.4	"	Dr.	220
W Entweestle	"	2	50	2.4	"	"	220
Wm. Baker	Industry	2	40	2.4	"	"	220
S Lamborn	Doddsville	2	40	2.4	"	"	210
Wm. Dickerson	Colchester	2	30	2.4	"	"	200
Wm. Ennis	"	2	40	2.4	"	"	200
G. Smith	"	2	40	2.4	"	"	200
Simeon Kosch	Macomb	2	40	2.4	"	Sh.	200
Lewis Atkinson	Colchester	2	30	2.4	"	Dr.	180
R. Loity	"	2	40	2.4	"	"	155
Wm. Martin	"	2	40	2.4	"	"	150
F. M. Haines	"	2	50	2.4	"	"	140
John McCord	"	2	50	2.4	"	Sl.	140
Isaac Stone	"	2	40	2.4	"	Sh.	120
Wm. Stoneking	Industry	2	40	2.4	"	Dr.	120
Total, 46 mines—9 sh., 4 sl., 33 dr.							51,042

PEORIA COUNTY.

J. Wantling & Son	Pottstown	2	112	2.6	L. W.	Sh.	28,000
Elmwood Coal Co	Elmwood	2	215	2.6	"	"	8,703
Third Vein Coal Co	Orchard Mines	2	160	2.6	"	"	3,600
Total, 3 mines							40,303

Physical Character of Coal Mines—Continued.

SCHUYLER COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
Rufus Porter	Ray	2	50	2.6	P. R.	Dr.	860
Alfred Nasley	Huntsville	2	35	2.3	"	"	750
Wm. Harris	Ray	2	50	2.6	"	"	700
H. Wetmore	Frederick	2	45	2.6	"	"	640
Perkins & Simpson	Ray	2	50	2.6	"	"	550
Jacob Blackofen	Littleton	2	30	2.3	"	"	540
John Cagle	"	2	30	2.3	"	"	525
O. Alexander	Huntsville	2	35	2.3	"	"	480
Geo. Montooth	Ray	2	50	2.6	"	"	320
Wm. Cagle	Frederick	2	50	2.6	"	"	320
J. C. West	Huntsville	2	35	2.3	"	"	240
Geo. Edwards	"	2	35	2.3	"	"	200
Total 12 mines							6,125

WARREN COUNTY.

G. H. Little	Roseville	2	36	2	P. R.	Sh.	1,800
John Selkirk	Monmouth	2	70	2.2	"	"	1,600
Murphy & Redmond	"	2	55	2	"	"	1,200
Thos. Caldwell	Avon	2	12	2	"	Sl.	1,096
Thos. Wearmouth	Youngstown	2		2.2	"	Dr.	480
Thos. Delany	Avon	2		2	"	"	440
Henry Chatterton	"	2		2	"	"	400
Lieurance & Miller	Youngstown	2		2.2	"	"	400
Thos. Smith	Avon	2		2	"	"	360
S. G. Kidd	Roseville	2	16	2	"	Sl	360
Samuel White	Swan Creek	2	12	2.2	"	"	320
Thos. Lee	Youngstown	2		2.2	"	Dr.	208
Henry Fullerton	Avon	2		2	"	"	192
Joseph Simpson	Swan Creek	2		2.2	"	"	60
Total 14 mines—3 sh., 3 sl., 8 dr.							8,916

WILL COUNTY.

Murphy, Keenan & Co	Braidwood	2	63	2.8	L. W.	Sh.	47,603
William Mattly	"	2	30	3	"	"	6,316
Coöperative Coal Co	"	2	55	2.10	"	"	4,500
Reiley Moffat & Co	"	2	60	2.10	"	"	1,557
Total 4 mines							59,976

WOODFORD COUNTY.

Roanoke Coal & Mining Co	Roanoke	2	480	2.6	L. W.	Sh.	84,778
Chicago & Minonk Coal & T. Co	Minonk	2	552	2.6	"	"	50,800
Total 2 mines							135,578
Grand total							5,207,827

Physical Character of Coal Mines.—Continued.

HENRY COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or p'llar and room.	Shaft, slope or drift.	
Fred Kenady	Cambridge	3	130	2.8	P. R.	Sh.	5,568
James Kay	Atkinson	3	40	3	"	"	2,180
James Waine	"	3	40	3	"	"	1,600
Ellery Riley	"	3	30	3	"	"	1,300
Chas. H. Stiner	"	3	35	3	"	"	1,080
John Mowbray	"	3	15	3	"	Sl.	880
Total 6 mines—5 sh., 1 sl							12,608

JOHNSON COUNTY.

D. J. Wallace	New Burnside	3	20	3.4	P. R.	Dr.	1,000
McMichael & King	"	3	20	3.4	"	"	400
Walter Smith	"	3	20	3.4	"	"	309
Total 3 mines							1,709

KNOX COUNTY.

J. F. Dudley	Knoxville	3	30	2.6	P. R.	Sh.	3,200
Nelson & Anderson	"	3		2.6	"	Dr.	1,692
James Nelson	"	3	45	2.6	"	Sh.	290
Total 3 mines—2 sh., 1 dr							5,182
Grand total							19,499

KNOX COUNTY.

George Essex	Soperville	4	112	4	P. R.	Sh.	7,700
Reed & Prendergast	"	4	93	4	"	"	3,800
Wm. Woodward	Galesburg	4	50	4	"	"	3'200
George Essex	Soperville	4	30	4	"	Sl.	800
Pat Powers	Galesburg	4	10	3.6	"	"	520
Total 5 mines—3 sh., 2 sl							16,020

STARK COUNTY.

John Catton	West Jersey	4		5	P. R	Dr.	1,610
Grand total							17,630

Physical Character of Coal Mines—Continued.

FULTON COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft slope or drift.	
Whitebreast Fuel Co., C	Dunfermline	5	90	5	P. R.	Sh.	137,331
Whitebreast Fuel Co., D	St. David	5	60	5	"	"	59,538
Maplewood Coal Co	Farmington	5	110	4	"	"	59,000
Sunday Creek Coal Co	Middle Grove	5	106	4	"	"	56,843
Farmington Coal Co	Farmington	5	145	4	"	"	47,666
John Gaffney	Cuba	5	75	4 6	"	"	37,928
Norris Coal Co	Norris	5	185	4 4	"	"	36,853
Canton Union Coal Co	Canton	5	50	4 6	"	Sl.	29,616
Monarch Coal and Mining Co	Farmington	5	67	4	"	Sh.	23,838
Canton Coal Co	Canton	5	80	4 6	"	"	22,415
J. M. Laws	"	5	60	4 6	"	Sl.	19,004
Schripps Coal Co	Astoria	5	60	6	"	Sh.	15,506
Newsam Bros	Farmington	5	85	4	"	"	12,178
P. W. Meehan	Breeds	5	70	4 6	"	Sl.	10,000
Taylor & Peck, 1	Cuba	5	70	4 6	"	"	9,900
Astoria Coal and Mining Co	Astoria	5	70	6	"	Sh.	8,314
Taylor & Peck, 2	Cuba	5	70	4 6	"	Sl.	6,700
Cline & Shaw	Fiatt	5	30	4 6	"	"	5,400
Howard Bros	Canton	5	60	4 6	"	Sh.	4,260
Applegate & Lewis	Cuba	5	80	4 6	"	"	3,155
Chipping & Martin	Canton	5	80	4 6	"	Sl.	2,400
Thos. Parcell	"	5	80	4 6	"	Sh.	2,200
Murphy Bros	"	5	60	4 6	"	Dr.	2,040
E. E. Peck	"	5	60	4 6	"	Sl.	1,800
A. Bath	St. David	5	55	5	"	Dr.	1,500
A. J. Gunnett	Fairview	5	50	4 6	"	"	1,480
S. Ashby	Canton	5	60	4 6	"	"	1,400
K. A. Rumble	Astoria	5	40	6	"	Sh.	1,370
Simeon Durham	Canton	5	65	4 6	"	Sl.	1,280
George Essex	Fairview	5	60	4 6	"	Dr.	1,270
Chas. Scanlan	Canton	5	75	4 6	"	Sl.	1,120
Lewis Memmon	"	5	60	4 6	"	"	1,100
Chas. Roddis	Ipava	5	40	5	"	"	985
George Marshall	Cuba	5	60	4 6	"	Dr.	900
McBroom Bros	Canton	5	60	4 6	"	Sl.	800
G. K. Barrere	"	5	20	5	"	Dr.	800
Arch Taylor	St. David	5	60	5	"	"	700
E. Detmars	Fairview	5	50	4 6	"	"	640
J. Abbdurky	"	5	60	4 6	"	"	500
George Mercy	St. David	5	70	5	"	"	500
Wm. Hughes	Canton	5	60	4 6	"	Sl.	500
John Stevens	Cuba	5	60	4 6	"	Dr.	500
G. H. Rouk	Canton	5	70	4 6	"	Sl.	480
John Wright	Cuba	5	60	4 6	"	Dr.	450
H. Tomkins	St. David	5	65	5	"	"	400
R. Jones	Cuba	5	60	4 6	"	"	350
A. DeMoss	St. David	5	50	5	"	"	300
Wm. Jordan	"	5	30	5	"	"	300
James McLaughlin	Canton	5	60	4 6	"	Sl.	200
Total, 49 mines—16 sh., 16 sl., 17 dr.							633,710

GALLATIN COUNTY.

Hugh Murray	Equality	5	80	4 6	P. R.	Sh.	9,500

Physical Character of Coal Mines—Continued.

JEFFERSON COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
Mt. Vernon Coal Co	Mt. Vernon	5	825	4.10	P. R.	Sh.	35,314

JERSEY COUNTY.

Fisher & Budd	Brighton	5&6	90	3.6	P. R.	Sh.	720
Frank Hubener	"	5	24	3.6	"	"	402
Andrew Williamson	"	5	25	3.6	"	Dr.	386
Ed. Springman	"	5	20	3.6	"	"	320
E. Harnish	"	5	20	3.6	"	"	285
Ed. Eitzsimmons	"	5	25	3.6	"	"	186
Shier & Wagenglass	"	5	20	3.6	"	"	160
A. Cairns	"	5	20	3.6	"	"	152
Henry Geisler	"	5	20	3.6	"	"	100
John Bahler	"	5	20	3.6	"	"	80
Total, 10 mines—2 sh., 8 dr							2,791

KNOX COUNTY.

L. Loopman	Middle Grove	5		4	P. R.	Dr.	530

LIVINGSTON COUNTY.

Walton Bros.	Fairbury	5	180	5	P. R.	Sh.	22,271
Coöperative Coal Co	"	5	165	5	"	"	12,097
Diamond Coal Co	Pontiac	5	200	5	"	"	7,417
Total, 3 mines							41,785

LOGAN COUNTY.

Citizens' Coal Co	Lincoln	5	290	5	P. R.	Sh.	85,933
Lincoln Coal Co	"	5	285	5	"	"	69,140
Mt. Pulaski Coal Co	Mt. Pulaski	5	360	5	"	"	7,018
Total, 3 mines							162,091

MACON COUNTY.

Decatur Coal Co., 2	Decatur	5	614	4.6	L. W.	Sh.	35,055
Decatur Coal Co., 3	Niantic	5	365	5	P. R.	"	30,067
Decatur Coal Co,, 1	Decatur	5	612	4.6	L. W.	"	24,248
Total, 3 mines—2 l. w., 1 p. r.							89,370

Physical Character of Coal Mines—Continued.

MACOUPIN COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
Chicago-Virden Coal Co	Virden	5	320	7.6	P. R.	Sh.	313,228
Consolidated Coal Co., 6	Staunton	5	322	6	"	"	251,525
Madison Coal Co	Mt. Olive	5	435	8	"	"	242,846
Consolidated Coal Co., 7	Staunton	5	360	6.8	"	"	223,177
Consolidated Coal Co, 8	Mt. Olive	5	410	8	"	"	218,297
Consolidated Coal Co., 10	"	5	431	8	"	"	200,340
Virden Coal Co	Virden	5	320	7.6	"	"	147,850
Greenridge Mining Co	Girard	5	350	6.4	"	"	146,431
Carlinville Coal Co	Carlinville	5	290	6	"	"	94,671
Girard Coal Co	Girard	5	354	6.6	"	"	84,544
Consolidated Coal Co	Gillespie	5	355	7	"	"	78,418
Consolidated Coal Co	Hornsby	5	388	6.6	"	"	60,559
Nilwood Carbon Co	Nilwood	5	325	6	"	"	43,721
Wm. Neil & Co	Bunker Hill	5	250	5.6	"	"	6,252
Lucking Bros	Fosterburg	5	75	3.9	"	"	843
Total, 15 mines							2,112,702

MADISON COUNTY.

Mitchell Bros	Prairietown	5	160	6	P R.	Sh.	797

MENARD COUNTY.

Greenview Coal & Mining Co	Greenview	5	109	6	P. R.	Sh.	111,675
Wabash Coal Co	Athens	5	187	6	"	"	91,451
Athens Mining Co	"	5	200	6	"	"	68,721
Chicago & Kansas City Coal Co	Petersburg	5	155	6	"	"	68,000
South Mountain Coal Co	"	5	85	6	"	Sl.	20,580
Tallula Coal Co	Tallula	5	185	6	"	Sh.	19,674
Junction Coöperative Coal Co	Petersburg	5	85	6	"	"	5,347
Wm. Parker & Son	Sweetwater	5	170	6	"	"	3,701
Wm. Denton	Petersburg	5	60	6	"	"	1,524
J. Mullegrabin	"	5	60	6	"	"	1,244
Chas. O'Niel	"	5	80	6	"	"	1,200
J. E. Atteberry	Tice	5	80	6	"	"	660
Total, 12 mines—11 sh., 1 sl.							393,777

McLEAN COUNTY.

McLean Co Coal Co	Bloomington	5&2	541	3&4	L.W.	Sa.	125,000

Physical Character of Coal Mines—Continued.

MONTGOMERY COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift	
Montgomery Coal Co	Paisley	5	534	8	P. R.	Sh.	139,900
Hillsboro Coal Co	Hillsboro	5	440	7.6	"	"	110,056
Coffeen Coal Co	Coffeen	5	534	8	"	"	8,000
Progression Coal Co	Raymond	5	434	3.3	"	"	4,038
Total—4 mines							261,994

MORGAN COUNTY.

F. Wagstaff	Murrayville	5	70	4.6	P. R.	Sh.	2,120
W. T. Fisher	"	5	26	4.6	"	"	927
Totol—2 mines							3,047

PEORIA COUNTY.

Newsam Bros	Kingston Mines	5	180	4.4	P. R.	Sl.	87,959
Shull Bros	Peoria	5	80	4.4	"	Sh.	85,000
Newsam Bros	Walcott	5	90	4.4	"	Sl.	52,520
Walschlag Co-Operative Coal Co	Peoria	5	150	4.2	"	"	50,364
Royster & Zeigler	"	5	75	4 2	"	Sh.	36,255
Peter Grant & Son	Excelsior	5	105	4.2	"	"	34,427
C. B. Kramm & Bro	Edwards	5	120	4.6	"	Sl.	34,057
Newsam Bros	Star	5	130	4.2	"	Sh.	31,611
Haworth & Edwards	Edwards	5	120	4.2	"	Sl.	31,326
Newsam & Bros	Hanna City	5	250	4.2	"	Sh.	30,642
Vicary Bros	Peoria	5	75	4.4	"	Sl.	28,340
Collier Co-Operative Coal Co	Bartonville	5	180	4.4	"	Sh.	27,858
German Coal Co	Mapleton	5	100	4.6	"	Sl.	16,092
Winters Coal Co	Bartonville	5	90	4.4	"	Sh.	15,494
W. E. Foley	Mapleton	5	80	4.6	"	Sl.	14,000
James Walker	"	5	70	4.6	"	"	11,901
Sholl Bro	Bartonville	5	50	4.4	"	"	9,387
Sneddon & Hibbard	Peoria	5	90	4.6	"	Sh	6,800
T. P. Schmidt & Son	"	5	55	4.2	"	Dr.	6,324
Cusack & Edwards	Edwards	5	100	4	"	Sl.	5,950
George Keller	Bartonville	5	90	4.4	"	"	4,921
Jefford & Bro	Kingston Mines	5	120	4.6	"	"	3,689
Treasure Coal Co	Mapleton	5	60	4.6	"	"	3,600
Ball Coal Co	Bartonville	5	90	4 4	"	Sh.	3,505
S. Miller	Mapleton	5	110	4.4	"	"	3,200
Mahn Bros	Peoria	5	130	4.6	"	"	3,000
John Birdois	Peoria	5	55	4.2	"	Dr.	2,435
D. B. Roberts	Mapleton	5	160	4.4	"	"	2,400
White Coal Co	Bartonville	5	90	4 4	"	"	2,262
H. Vicary	Pottstown	5	112	4.4	"	"	2,100
Adams Coal Co	Peoria	5	55	4.2	"	Sh.	2,000
Schneider & Ennis	"	5	55	4.2	"	Dr.	1,900
H. Goodwin	Mapleton	5	85	4.6	"	Sh.	1,600
Martin & Lane	Peoria	5	80	4.2	"	Dr.	1,400
Yast & Rumple	"	5	55	4.2	"	"	1,000
Fred Martin	"	5	55	4.2	"	"	720
Hamilton Bros	Mapleton	5	80	4.6	"	Sh.	600
Ogden Hays	"	5	32	4.4	"	"	400
Daniel Sanders	Glassford	5	90	4.6	"	Dr.	400

Physical Character of Coal Mines—Continued.

Peoria County—Concluded.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
Johnson & Lane	Peoria	5	80	4.6	P. R.	Dr.	360
Wolford & Bing	Oak Hill	5	70	4	" "	" "	350
James Fash	Peoria	5	90	4.4	" "	" "	350
Wm. Clarkson	Edwards	5	85	4	" "	" "	300
Wm. Clark	Oak Hill	5	80	4	" "	" "	250
Geo. Pargetter	Pottstown	5	80	4.6	" "	" "	250
Chas. Kingsley	Edwards	5	80	4.6	" "	" "	250
Joseph Marie	Pottstown	5	90	4.4	" "	" "	250
C. Snyder	Edwards	5	80	4	" "	" "	200
Total, 48 mines—15 sh., 14 sl., 19 dr							659,999

RANDOLPH COUNTY.

Rosborough Coal Co	Percy	5	30	6	P. R.	Sh.	42,324

SALINE COUNTY.

Davenport Coal Co	Ledford	5	144	8	P. R.	Sh.	118,454
Harrisburg Mining & Coal Co	Harrisburg	5	220	8	" "	" "	25,590
Total—2 mines							144,044

SANGAMON COUNTY.

Chicago-Virden Coal Co	Auburn	5	280	7.6	P. R.	Sh.	254,533
Riverton Coal Co., 2	Riverton	5	232	5.9	" "	" "	248,597
Black Diamond Coal Co	Springfield	5	245	5.9	" "	" "	196,385
Capital Co. Coal Co., 2	"	5	240	5.9	" "	" "	162,137
Sangamon Coal Co	"	5	265	5.9	" "	" "	134,705
Starnes Coal Mining Co	"	5	250	5.9	" "	" "	133,981
West End Coal Co	"	5	150	5.9	" "	" "	132,470
Jones & Adams Coal Co	Springfield	5	250	5.9	" "	" "	120,637
Madison Coal Co	Divernon	5	318	8	" "	" "	118,920
Junction Mining Co	Springfield	5	250	5.9	" "	" "	116,451
Republic Iron & Steel Co	Ridgely	5	245	5.9	" "	" "	115,351
Springfield Coöperative Coal Co	Springfield	5	250	5.9	" "	" "	115,000
Chicago-Virden Coal Co	Chatham	5	259	7	" "	" "	111,700
Woodside Coal Co	Springfield	5	250	5.9	" "	" "	100,087
Cantrall Coöperative Coal Co	Cantrall	5	213	6	" "	" "	95,232
Spaulding Coal Co	Spaulding	5	238	5.9	" "	" "	91,967
Wabash Coal Co	Dawson	5	259	5	" "	" "	89,958
Riverton Coal Co., 1	Riverton	5	230	5.9	" "	" "	87,288
Citizens' Coal Mining Co., A	Springfield	5	210	5.9	" "	" "	87,031
Williamsville Coal Co	Selbytown	5	269	5.6	" "	" "	80,740
Clear Lake Coal Co	Bissell	5	220	5.9	" "	" "	78,232
Citizens' Coal Co., B	Springfield	5	205	5.4	" "	" "	72,130
Barclay Coal Co	Barclay	5	249	5.9	" "	" "	60,606

Physical Character of Coal Mines—Continued.

Sangamon County—Concluded.

Name of Operator	Postoffice Address of Mines.	Physical Character of Mimes.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar room.	Shaft, slope or drift.	
Chic., Wilm. & Ver. Coal Co	Thayer	5	292	7.11	P. R.	Sh.	57,085
Capital Coöperative Coal Co	Springfield	5	240	5.9	"	"	21,574
Auburn & Alton Coal Co	Auburn	5	268	7.6	"	"	12,000
Lincoln Park Coal Mining Co	Springfield	5	240	5.9	"	"	8,940
Victor Coal Co	Pawnee	5	324	7.6	"	"	8,762
Springfield & Pleas. Plains Coal Co.	Pleasant Plains	5	129	5.6	"	"	5,774
J. P. Jordan	Salisbury	5	150	5.6	"	"	950
Total, 30 mines							2,919,223

SCHUYLER COUNTY.

William Kerr	Rushville	5	48	4.6	P. R.	Sh.	3,640
William Cummings	"	5	40	5	"	Dr.	2,725
D. Lawler	"	5	40	4.6	"	Sl.	800
R. Strong	Pleasant View	5	40	4.6	"	Sh.	700
Fred Croxton	"	5	30	4.6	"	Sl.	550
Velpo Roosa	"	5	34	4.6	"	Sh.	150
Total, 6 mines—3 sh., 2 sl., 1 dr.							8,565

SHELBY COUNTY.

Moweaqua Coal M. & Mfg. Co	Moweaqua	5	618	5.4	P. R.	Sh.	88,050

TAZEWELL COUNTY.

Phoenix Coal Co	East Peoria	5	100	4	P. R.	Sh.	20,384
Edward Little	"	5	100	4	"	"	25,784
A. G. Cummings	"	5	50	4	"	"	16,220
Abben Coal Co	Pekin	5	125	5	"	"	13,800
East Peoria Coal Co	East Peoria	5	85	4	"	Sl.	13,279
Progression Coal Co	"	5	90	4	"	"	12,000
Grant Bros	Pekin	5	100	5	"	Sh.	10,559
Hawley Coal Co	"	5	100	4	"	"	10,494
Wm. Cruickshank & Son	East Peoria	5	70	4	"	"	6,654
Bohlander Bros	Pekin	5	120	5	"	"	5,300
Backing Bros	East Peoria	5	90	4	"	"	5,000
Wm. F. Doering	"	5	80	4	"	"	3,885
Manhattan Coal Co	"	5	90	4	"	Sl.	3,000
G. Gabblehanson	"	5	90	4	"	Sh.	2,350
Total, 14 mines—11 sh., 3 sl.							157,709

WILLIAMSON COUNTY.

John Reeves & Co	Pulley's Mill	5	30	3	Str.	Str	25
Grand total							7,892,347

Physical Character of Coal Mines—Continued.

BOND COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal, below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
Sorento Prost. and Mfg. Co	Sorento	6	380	7.6	P. R.	Sh.	208,668

BUREAU COUNTY.

Sheffield Mining Co	Sheffield	6	45	4.6	P. R.	Sl.	21,595
Wm. Brandt	Mineral	6	15	4.6	"	Sh.	5,940
Tomkins Bros	"	6	15	4.6	"	Sl.	2,552
Geo. Heathcock	Princeton	6	200	4.6	"	Sh.	2,802
W. G. Thomas & Co	Sheffield	6	25	4.6	"	"	2,054
Mathew Duncan	"	6	30	4.6	"	Sl.	1,660
A. W. Walton	Princeton	6	150	4.6	"	Sh.	1,478
Thomas Herrington	"	6	148	4.6	"	"	1,448
Wm. Smith & Son	"	6	147	4.6	"	"	1,430
John V. Duncan	Sheffield	6	22	4.6	"	"	750
C. W. Riley	Neponset	6	64	4	"	"	590
Henry Kempin & Co	"	6	96	4	"	"	560
Total, 12 mines—9 sh., 3 sl.							42,859

CHRISTIAN COUNTY.

Taylorville Coal Co	Taylorville	6	462	8	P. R.	Sh.	211,340
Penwell Coal Co	Pana	6	723	7.6	"	"	99,335
Pana Coal Co	"	6	720	7.6	"	"	98,060
Springside Coal Co	"	6	723	7.6	"	"	84,947
Edinburg Coal Co	Edinburg	6	365	7	"	"	11,500
Total, 5 mines							505,182

CLINTON COUNTY.

Breese Coal Co	Breese	6	400	7.6	P. R.	Sh.	206,465
Consolidated Coal Co	Breese	6	400	7.6	"	"	134,652
Muren Coal and Ice Co	New Baden	6	324	8	"	"	122,000
Germantown Coal Co	Germantown	6	342	4	"	"	7,800
Total, 4 mines							$470,917

FULTON COUNTY.

R. E. Gould & Co	Fairview	6	50	4	P. R.	Dr.	800
A. Anderson	"	6	60	4	"	"	720
Deemy & Raffle	Farmington	6	50	4.6	"	Sh.	700
Total, 3 mines—1 sh., 2 dr.							$2,220

Physical Character of Coal Mines—Continued.

GALLATIN COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal, below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
Wm. H. Stader	Equality	6	30	4	P. R.	Sl.	4,000
Mike Carney	Shawneetown	6	35	4.6	"	Dr.	2,650
W. H. McLain	Equality	6	31	4	"	"	1,304
J. H. Underwood	"	6	20	4.4	"	"	850
Rutley & Godsley	"	6	50	4.6	"	"	800
Leon Voyt	Shawneetown	6	30	4.6	"	"	629
Robt. Reid Coal Co	Saline Mines	6	30	4.6	"	"	620
" " "	" "	6	30	4.6	"	"	460
" " "	" "	6	25	4.6	"	"	320
F. W. Weedmann	Equality	6	20	4	"	"	290
Total, 10 mines—1 sl., 9 dr.							11,914

HENRY COUNTY.

Herdien Coal Co	Galva	6	60	4	P. R.	Sh.	14,877
J. J. Fleming	Kewanee	6	54	4	"	"	7,110
Kewanee Mining and Mfg. Co	"	6	70	4	"	"	7,000
James H. Murray	Galva	6	45	4	"	"	4,000
Philip Henry	Kewanee	6	26	4	"	"	3,800
Bates Bros	"	6	68	4	"	"	3,690
Kewanee Coal and Mining Co	"	6	103	4	"	"	3,150
Saml. Garland	"	6	66	4	"	"	2,840
Emil Ahlgren	"	6	20	4	"	Sl.	2,500
Bernard Kirley	"	6	66	4	"	Sh.	2,498
Henry Kempin	"	6	32	4	"	Sl.	1,600
Mathew Atkinson	"	6	.....	4	"	Dr.	1,255
Ralph Todd	"	6	20	4	"	Sl.	850
P. Maloen & Son	"	6	20	4	"	"	800
Max Gray	"	6	24	4	"	Sh.	690
Kenneth Murchison	"	6	16	4.6	"	"	490
R. G. Duff	"	6	24	4	"	"	440
Joseph Dixon	"	6	.....	4	"	Dr.	350
Joseph Pyle	"	6	20	4	"	Sl.	288
Thos. Carter & Son	"	6	60	4	"	Sh.	255
Ted Carter	"	6	.....	4	"	Dr.	122
Total, 21 mines—13 sh., 5 sl., 3 dr.							58,605

JACKSON COUNTY.

Williard Costigan	Campbell Hill	6	20	3	P. R.	Sl.	405
D. Dassin	" "	6	20	3	"	"	368
H. R. King	" "	6	20	3	"	"	300
							1,073

Physical Character of Coal Mines—Continued.

KNOX COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
Etterly Coal Co., 2	Etterly	6	.....	4	P. R.	Dr.	21,550
Geo. Clifford	Oneida	6	20	4	"	Sl.	4,000
Etterly Coal Co	Etterly	6	.....	4	"	Dr.	3,950
Isom Dalton	Yates City	6	20	4.8	"	Sh.	3,000
Chas. Simpson	Wataga	6	30	4	"	Sl.	2,870
Persifer and Victora Township	Victora	6	.....	4	"	Dr.	2,400
Otto Isaccson	Wataga	6	47	4	"	Sh.	2,000
Rodell & Mitchell	"	6	50	4	"	"	1,660
Bowman Bros	Yates City	6	50	4.6	"	"	1,470
Frank Fink	Truro	6	30	4	"	"	1,400
Taylor Bros	Wataga	6	45	4	"	"	1,400
L. Nodene & Son	"	6	20	4	"	Sl.	1,228
Terance McGovern	Oneida	6	50	4.3	"	Sh.	1,200
John Walsh	Truro	6	35	4	"	Sl.	1,132
Ambrose King	Victora	6	20	4	"	"	843
James McGovern	Oneida	6	20	4.4	"	Sh.	750
Eric Herkstrom	Victora	6	20	4	"	Sl.	720
N. A. Anderson	Wataga	6	40	4	"	Sh.	654
Ed. Peterson	Etterly	6	.....	4	"	Dr.	584
Charles Morgan	Oneida	6	20	4	"	Sl.	500
John Thorn	Wataga	6	50	4	"	Sh.	400
Wm. M. Welker	Farmington	6	.....	4.6	"	Dr.	390
Frank Reinhold	Wataga	6	15	4	"	Sl.	328
John S. Jordan	Farmington	6	35	4	"	Sh.	318
Peter Dolan & Son	Wataga	6	20	4	"	Sl.	86
Total, 29 mines—11 sh., 9 sl., 9 dr.		....	.....	.....	.....	....	54,830

MADISON COUNTY.

Staunton Coal Co., 1	Staunton	6	292	7	P. R.	Sh.	327,449
Madison Coal Co., 2	Glen Carbon	6	110	6.6	"	"	270,956
Madison Coal Co., 4	"	6	130	6.6	"	"	236,376
Consolidated Coal Co., 3	Collinsville	6	146	7	"	"	159,460
Consolidated Coal Co., Heintz	"	6	168	7	"	"	148,990
Donke Bros. Coal and Coke Co., 1	"	6	137	6	"	"	140,185
Madison Coal Co., 3	Edwardsville	6	217	6.6	"	"	75,802
Lumaghi Coal Co., 1	Collinsville	6	160	7	"	"	60,000
Independent Coal Co	"	6	188	7	"	"	45,129
Home Trade Coal Co	Edwardsville	6	131	5	"	"	9,793
Herus-Dauniowol Coal Co	Worden	6	270	7	"	"	6,021
Bullock Bros	Collinsville	6	171	7	"	"	4,644
Donke Bros. Coal Co., 2	"	6	227	6	"	"	4,184
Chas. Kabel	Moro	6	85	4.6	"	"	1,920
John James	Bethalto	6	67	5	"	"	1,100
Perry Myers	"	6	65	4	"	"	1,000
James Hill	Fosterburg	6	70	3	"	"	1,000
Consolidated Coal Co., 12	Worden	6	275	6	"	"	988
Samuel McDonald	Moro	6	45	5	"	"	800
Wm. Richardson	"	6	48	5	"	"	500
Thomas Titchnell	Fosterburg	6	20	3	"	"	80
Total, 21 mines		....	.....	.....	.....	....	1,496,377

Physical Character of Coal Mines—Continued.

MARION COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
Pittinger & Davis, M. and Mfg. Co., 3 and 4	Centralia	6	637	6	P. R.	Sh.	270,846
Centralia Mfg. and M. Co., 2	"	6	576	6	"	"	218,798
Odin Coal Co	Odin	6	714	6	"	"	187,851
Sandoval Coal Co	Sandoval	6	609	6	"	"	113,107
Kinmundy Coal Co	Kinmundy	6	871	4	"	"	34,782
Salem Coal Co	Salem	6	885	4	"	"	3,942
Total, 6 mines							829,326

McLEAN COUNTY.

Colfax Coal and Mining Co	Colfax	6	400	5.6	P. R.	Sh.	30,959
East Coalfax Coal Co	"	6	400	5.6	"	"	8,800
Chenoa Coal Co	Chenoa	6	275	4	"	"	3,000
Total, 3 mines							42,759

MARSHALL COUNTY.

Devlin Coal Co	Toluca	6	375	3.10	P. R.	Sh.	65,605
Joseph Caley	Henry	6	.....	3	"	Dr.	400
Total, 1 shaft, 1 drift							66,005

PEORIA COUNTY.

Lawrence Rigby	Princeville	6	70	4.6	P. R.	Sh.	4,300
W. Pool	Kickapoo	6	22	4.6	"	"	1,000
Geo. Rattleback	Brimfield	6	40	5	"	"	800
Geo. Mulvaney	"	6	40	5	"	"	760
Oscar Graves	Duncan	6	40	4.6	"	"	720
H. Durant	"	6	40	5	"	"	500
C. Berry	Monica	6	40	4.6	"	"	560
Wm. Johnson	Hanna City	6	75	4	"	Dr.	400
Chas. Abys	Laura	6	60	4.6	"	"	400
Wm. Black	Smithville	6	60	4.6	"	"	340
Chas. Heving	Laura	6	60	4.6	"	"	300
R. Clarkson	Alta	6	90	4.6	"	"	200
Total, 12 mines—7 sh., 5 dr.							10,280

Physical Character of Coal Mines—Continued.

PERRY COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
Willis Coal and Mining Co	Willisville	6	80	6	P. R.	Sh.	131,276
Harus Colliery Co	Du Quoin	6	80	7	"	"	95,059
Greenwood-Davis Coal Co	"	6	38	6	"	"	72.185
Superior Coal Co	"	6	62	6	"	"	70,977
G. W. Brown Coal Co	Pinckneyville	6	90	6	"	"	56,000
Vulcan Coal Co	Du Quoin	6	90	6	"	"	45,000
Pope Mining Co	"	6	44	6	"	"	42,000
Loper & Co	Cutler	6	122	6	"	"	41,249
Bailey Bros. Coal Co	Sunfield	6	80	5.5	"	"	34,000
Perry Co. Coal Co	Du Quoin	6	22	5.6	"	"	31,270
Jupiter Coal Co	"	6	62	6	"	"	14,508
Turner & Faust Coal Co	Pinckneyville	6	86	6	"	"	9,124
Barwell Coal Co	Conant	6	72	6	"	"	6 500
New Moon Coal Co	DuQuoin	6	35	5.6	"	Sl.	6,161
White Walnut Coal Co	Pinckneyville	6	85	6	"	Sh.	3,119
Wm. Williams	St. John	6	30	5.6	"	"	2,000
Roe Coal Co	Pinckneyville	6	35	6	"	"	1,914
Maasbury & Co	"	6	35	6	"	"	1,600
John E. Henson	Denmark	6	25	6	"	"	120
Thomas Carter	"	6	20	6	"	"	116
Tamaroa Colliery Co	Tamaroa	6	200	5.5	"	"	100
Total, 21 mines—20 sh., 1 sl							664,278

RANDOLPH COUNTY.

Western A. Coal & C. Co	Sparta	6	140	6	P. R.	Sh.	190,047
Donk Bros. Coal & C. Co	Tilden	6	180	6	"	"	49,581
Goalby & Sons	Percy	6	70	6	"	"	27,265
Illinois Fuel Co	Sparta	6	36	6	"	"	24,826
Coulterville Mining Co	Coulterville	6	370	6	"	"	23,406
Davison & Fulton, 1	Sparta	6	80	6	"	"	13,408
Wm. Borders	Percy	6	65	6	"	"	17,522
Illinois Fuel Co	Sparta	6	37	6	"	"	8,642
Crystal Coal Co	Tilden	6	205	6	"	"	5,541
Davison & Fulton 2	Sparta	6	74	6	"	"	5,320
Geo. Stanway	Blair	6	24	5	"	"	3,072
J. C. Boyle & Son	Sparta	6	36	6	"	"	1,915
John & Geo. Myers	Percy	6	20	5	"	"	680
Total, 13 mines							371,226

Physical Character of Coal Mines—Continued.

SALINE COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
Cook & Blackley	Eldorado	6	50	4	P. R.	Sh.	1,252
C. M. Leeper & Co	"	6	50	4	"	"	800
Wm. Rutter	Stonefort	6	18	3	"	Dr.	580
John Ward	Mitchelville	6	25	4	"	"	453
Wm. L. Evans	Cottage Grove	6	25	4.6	"	"	415
D. P. Bybee	Mitchelville	6	25	4	"	"	400
R M. Berry	Cottage Grove	6	18	4	"	"	311
O. C. Cogdall	Stonefort	6	30	3	"	"	128
James A. Clark	Cottage Grove	6	30	4.3	"	"	100
John Chancey	Stonefort	6	40	3	"	"	90
Simon More	Cottage Grove	6	30	4	"	"	50
John Yates	"	6	20	4	"	"	48
H. P. Sitley	Stonefort	6	40	3	"	"	30
Total, 13 mines—2 sh., 11 dr							4,657

STARK COUNTY.

J. M. Robinson	Elmira	6	45	4.6	P. R.	Sh.	2,800
Geo. R. Watson	Wyoming	6	73	4.6	"	"	2,600
S. French	Bradford	6	104	4.8	"	"	2,562
James Higbee	Wyoming	6	45	4	"	"	2,448
Robinson & Stephenson	"	6	56	4	"	"	2,226
Hany Storey	Toulon	6	60	4.3	"	"	1,800
Chas. Montooth	Bradford	6	138	4.6	"	"	1,400
John Scott	Modena	6	60	4.6	"	"	1,340
Joseph Goode	Lombardville	6	130	4.6	"	"	1,248
Haney Dunn	Osceola	6	30	4	"	Sl.	1,240
John Leitch	LaFayette	6	30	3.6	"	Sh.	1,200
Benj. Smith	Modena	6	40	4.8	"	"	880
Higbee & Robinson	Wyoming	6	70	4	"	"	770
John Thurston	"	6	.....	4	"	Dr.	640
F B. Newton	Modena	6	65	4.6	"	Sh.	400
Alex. Morrison	Wyoming	6	50	4.6	"	"	360
Wm. Jones	Bradford	6	117	4.8	"	"	320
John Price	Wyoming	6	18	4	"	Sl.	260
Foster Coulsan	"	6	.....	4	"	Dr.	250
John E. Perkins	Osceola	6	.....	4	"	"	120
B. F. Newton	Bradford	6	128	4.6	"	Sh.	50
Total, 21 mines—16 sh, 2 sl., 3 dr							24,914

ST. CLAIR COUNTY.

Muren Coal & Ice Co., 1	Belleville	6	180	6	P. R.	Sh.	120,000
Kolb Coal Co	Mascoutah	6	160	7	"	"	110,416
Crown Coal Co	Belleville	6	185	6.6	"	"	102,946
Joseph Taylor, Mentor	O'Fallon	6	210	7	"	"	83,341
Walnut Hill Coal Co	Birckner	6	200	7	"	"	83,087
Joseph Taylor	O'Fallon	6	200	6	"	"	78,690
Donk Bros Coal Co	Belleville	6	.....	6	"	Sl.	78,132
Ruby Mfg. Co	Caseyville	6	200	7	"	Sh.	74,250
Mo. & Ill. Rentchler Coal Co	Belleville	6	130	6	"	"	72,328
Glendale Coal Co., No. 1	"	6	120	7	"	"	69,400
Oakland Coal Co	"	6	175	6.6	"	"	67,185

Physical Character of Coal Mines.—Continued.

St. Clair County.—Concluded

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
Consolidated Coal Co., Marissa	Marissa	6	120	6	P. R.	Sh.	65,424
Consolidated Coal Co., White Oak	"	6	175	6	"	"	65,153
Beck-Walker Coal Co	Belleville	6	180	6	"	"	64,779
Conrad Reinecke	"	6	110	6	"	"	60,017
Dutch Hollow Coal Co	Freeburg	6	150	8	"	"	54,727
Belleville & O. F. Coal Co	Belleville	6	120	6.6	"	"	53,434
Lenz Coal & Mfg. Co	"	6	125	7	"	"	52,379
Johnson Coal Co	Marissa	6	120	7	"	"	49,472
Hippard Coal Co	Belleville	6	75	6	"	"	49,283
Summit Coal Co	"	6	190	7	"	"	47,400
Consolidated Coal Co., Gartside	"	6	205	6	"	"	47,141
Consolidated Coal Co., Schuman	"	6	125	6	"	"	46,679
Eureka Coal Co	Marissa	6	114	7	"	"	46,537
Skellett Coal Co	Belleville	6	160	6	"	"	46,380
Chas. Hartman	"	6	90	6	"	"	45,000
Humboldt Coal Co	"	6	100	6	"	"	44,476
Oak Hill Coal Co	"	6	187	6	"	"	41,650
Mo. & Ill. Coal Co., Freeburg	"	6	128	6	"	"	40,978
Consolidated Coal Co., Green Mt	"	6	160	6	"	"	38,674
Tine & Sons Coal Co	Lenzburg	6	191	6	"	"	37,896
Highland Coal Co	Belleville	6	130	6	"	"	37,665
Consolidated Coal Co., Richland	"	6	90	8	"	"	36,278
Consolidated Coal Co., Pittsburg	"	6	125	6.6	"	"	36,000
Freeburg Mfg. Co	Freeburg	6	130	7	"	"	34,829
Glendale Coal Co	Belleville	6	150	6	"	"	34,550
Mo. & Ill. Coal Co., Wildemere	"	6	90	6	"	"	33,383
Reeb Coal Co	"	6	55	6	"	"	28,451
Lake Coal Co	"	6	75	6	"	"	25,859
Consolidated Coal Co., Rose Hill	"	6	132	6	"	"	25,029
Enterprise Mfg. Co	Rentchler	6	120	6	"	"	23,580
Fred Murphy	Belleville	6	60	6	"	"	20,000
Borders Coal Co	Marissa	6	112	7	"	"	15,283
Milstadt Coal Co	Milstadt	6	48	7	"	"	11,000
Dutch Hill Coal Co	New Athens	6	70	6	"	"	11,000
Advance Coal Co	Marissa	6	87	7	"	"	10,000
Vinegar Hill Coal Co	New Athens	6	85	6	"	"	9,177
August Ebel	Belleville	6	50	6	"	"	9,121
Frank Sergent	"	6	70	6	"	"	5,948
Taylor Bros	"	6	35	6	"	"	5,000
Conrad Reeb	"	6	100	7	"	"	4,554
John Horst	"	6	55	6	"	"	3,600
Wm. Pistor	Milstadt	6	46	7	"	"	3,004
James Beatty	Mascoutah	6	175	6	"	"	2,675
Nicholas Weiss	Belleville	6	66	6	"	"	2,200
Ritchie & Co	French Village	6	Dr.	6	"	Dr.	2,000
St. Louis Mer. & Mfg. Co	E St. Louis	6	50	6	"	Sh.	1,800
Diedrich Bros	Freeburg	6	60	7	"	Dr.	1,606
Valley Coal & Mfg. Co	Belleville	6	113	6	"	Sh.	1,480
Slemen & Sons	Centerville	6	60	6	"	"	1,200
Griffith & Warner	Caseyville	6	.....	6	"	Dr.	1,000
J. C. Marshall	"	6	.....	6	"	"	1,000
L. Grossman	Belleville	6	20	6	"	Sl.	880
Benj. Johnson	"	6	30	6	"	Sh.	880
Smith Bros	Smithton	6	.....	6	"	Dr.	500
Total 65 mines—58 sh., 2 sl., 5 dr.							2,377,786

Physical Character of Coal Mines.—Continued.

TAZEWELL COUNTY.

Name of Operator.	Postoffice Addrets of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
King & Pfang	Pekin	6	130	5	P. R.	Sh.	3,900

VERMILION COUNTY.

Kelleyville Coal Co., No. 3	Westville	6	212	7	P. R.	Sh.	320,821
Kelleyville Coal Co., No. 2	"	6	210	7	"	"	258,518
Himrod Coal Co	Himrod	6	170	8	"	"	244,443
Westville Coal Co	Westville	6	210	7	"	"	237,478
Himrod Coal Co	"	6	90	8	"	"	194,666
Brookside Coal Co., No. 2	Grape Creek	6	90	7	"	Sl.	89,846
J. O'Connell Coal Co	"	6	40	7	"	Sh.	57,024
Brookside Coal Co., No. 1	"	6	40	7	"	"	29,948
Jas. Thompson	"	6	60	6.6	"	Sl.	8,450
Joseph Marriage	"	6	75	6	"	Dr.	2,363
L. S. Miller	Danville	6	40	6	"	Sl.	2,000
Charles Cook	Grape Creek	6	60	6.6	"	"	1,414
Alfred Haskin	"	6	70	6	"	"	500
Silas Miller	"	6	40	6	"	Dr.	300
Total, 14 mines—7 sh., 5 sl., 2 dr.							1,447,765

WASHINGTON COUNTY.

Adam Kuhn	DuBois	6	296	5.6	P. R.	Sh.	24,000
Hugh Murray	Nashville	6	425	5.6	"	"	11,138
H. Whitland & Co	DuBois	6	320	5.6	"	"	600
Total—3 mines							35,838

WILLIAMSON COUNTY.

E. E. Ensminger	Crab Orchard	6	25	5.6	P. R.	Dr.	820
Geo. Morrow	"	6	20	5.6	"	"	400
Edwards & Collins	"	6	20	5.6	"	"	300
F. Motsinger	"	6	22	5.6	"	"	200
G. G. Brush	"	6	9	5.6	St.	St.	200
T. H. Willford	"	6	25	5.6	P. R.	Dr.	150
Chas. Dumsford	Absher	6	9	8	St.	St.	150
Total, 7 mines—5 dr., 2 st., 5 p. r.,	2 st						2,220
Grand total							8,733,598

BUREAU COUNTY.

Tiskilwa Coal Co	Tiskilwa	7	40	3	P. R.	Sh.	882

Physical Character of Coal Mines—Continued.

CLINTON COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
Trenton Coal, Light & Power Co	Trenton	7	335	4.10	P. R.	Sh.	107,699
Consolidated Coal Co	"	7	333	4.10	"	"	66,048
Total—2 mines							173,747

JACKSON COUNTY.

Muddy Valley Min. & Mfg. Co	Hallidayboro	7	165	8	P. R.	Sh.	220,480
Big Muddy Coal & Wah. Co	DeSoto	7	60	9	"	"	53,722
M. M. Thompson Coal Co	Carbondale	7	24	7	"	Sl.	1,000
—— Brown	"	7	20	7	"	Sh.	650
J. C. Ritchie	"	7	25	7.6	"	"	600
J. A. Presson	"	7	22	7.6	"	"	400
Wm. Meyer	"	7	24	7	"	Sl.	400
Wm. C. Beard	"	7	35	7.6	"	"	250
Total, 8 mines—5 sh., 3 sl.							277,502

KANKAKEE COUNTY.

Gardner Wil. Coal Co	Clark City	7	108	4.8	P. R.	Sh.	47,732

LA SELLE COUNTY.

Chicago, Wil. & Ver. Coal Co., 1	Streator	7	96	8	P. R.	Sh.	298,790
Chicago, Wil. & Ver. Coal Co., 2	"	7	116	6	"	"	275,400
Star Coal Co	"	7	86	5	"	"	143,562
Acme Coal Co	"	7	110	6.6	"	"	117,224
Wm. Howe & Co	"	7	50	5	"	"	44,880
J. C. Dawson & Co	Deer Park	7	125	4	"	"	3,786
Wm. Thomas & Co	Streator	7	24	4.6	"	"	3,241
Thos. Sowenby & Bros	"	7	55	4.6	"	"	2,750
Harr Bros	"	7	35	4.5	"	"	2,000
Barrmell Bros	"	7	20	4.8	"	"	1,500
H. Worthington & Co	"	7	25	4.6	"	"	1,100
Alloway & Stevie	"	7	35	4.6	"	"	1,100
Nelson & Westerlund	"	7	20	4	"	"	1,000
J. E. Buchanan & Bro	"	7	40	4.6	"	"	1,000
John McNeil	Kangly	7	75	8.6	"	"	900
Massey Bros	Leonore	7	71	4	"	"	700
Total—16 mines							898,933

Physical Character of Coal Mines—Continued.

LIVINGSTON COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
A. M. Barackman	Streator	7	35	4	P. R.	Sh.	33,417
Streator Clay Mfg. Co	"	7	75	4.6	"	"	8,857
Munts Bros	"	7	62	4.8	"	"	6,220
Evan Bros	"	7	60	4.8	"	"	3,000
Price & Jones	"	7	60	4	"	"	2,800
Benjamin Davis & Son	"	7	57	4	"	"	2,098
Harry Wonders	"	7	34	4.6	"	"	2,000
W. B. Edwards	"	7	64	4	"	"	1,728
Oscar Kimes	"	7	50	4	"	"	1,440
R. Evan, Jr. & Bros	"	7	40	4	"	"	1,100
Streator Acqueduct Co	"	7	30	5	"	"	640
Total, 11 mines							63,300

MADISON COUNTY.

Donk Bros. Coal Co	Troy	7	273	5	P. R.	Sh.	44,726
Consolidated Coal Co., Brookside	"	7	278	5	"	"	36,601
Consolidated Coal Co., Troy	"	7	278	5	"	"	13,025
Total, 3 mines							94,352

MARSHALL COUNTY.

Jas. Medearis	Henry	7	Drift	4	P. R.	Dr.	1,500
Ed. Bennett	Chillicothe	7	.....	3.8	"	"	500
Hamilton & Newell	Sparland	7	.....	3.10	"	"	480
Geo. Christman	"	7	.....	3.10	"	"	368
Wm. Horrocks	Henry	7	.....	3.10	"	"	360
Wm. Bough	"	7	.....	3.8	"	"	280
Wm. Lapeman	"	7	.....	3.10	"	"	256
Geo. Kear	Sparland	7	.....	3.10	"	"	240
R. H. Ingram	"	7	.....	3.10	"	"	220
Nighswonger Bros	"	7	.....	3.10	"	"	180
Bernard Lanning	"	7	.....	3.10	"	"	130
E. O. Frisbie	"	7	.....	3.10	"	"	120
Cyrus Wright	"	7	.....	3.10	"	"	100
Total, 13 mines							4,734

ST. CLAIR COUNTY.

Lebanon Coal & Machine Co	Lebanon	7	200	6	P. R.	Sh.	69,993
O'Fallon Coal & Mfg. Co	O'Fallon	7	186	6	"	"	71,128
Total, 2 mines							141,061

Physical Character of Coal Mines—Continued.

VERMILION COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below the surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
Catlin Coal Co	Catlin	7	168	6	P. R.	Sh.	179,829
Economy Coal & Mining Co	Westville	7	85	6	"	"	113,118
Consolidated Coal Co	Fairmount	7	208	5	"	"	67,307
Consolidated Coal Co	Missionfield	7	Strip	6	Strip	....	65,043
E. S. Gray	Danville	7	65	6	P. R.	Sl.	21,000
Entre Nous Coal Co	Muncie	7	200	5.6	"	Sh.	15,000
Mauck Bros	Danville	7	100	5.6	"	Sl.	13,000
D. A. Jenkins	"	7	50	6	"	"	10,000
Danville Brick & Tile Co	"	7	40	6	"	"	7,500
A. Jones & Son	Catlin	7	51	5.6	"	Sh.	7,000
Stansbury & Watkins	Danville	7	60	6	"	Sl.	6,500
S. Parle	"	7	45	6	"	"	5,500
Wm. Winehause	"	7	40	6	"	Dr.	4,290
D. D. Morin	"	7	45	6	"	"	3,620
Miller & Spangler	"	7	100	6	"	Sh.	3,455
James Thomas	"	7	25	6	"	Dr.	2,757
Wm. Schafer	"	7	70	6	"	Sl.	2,400
J. B. Daniel	Vadercook	7	50	6	"	Sh.	2,400
John Auldredge	Danville	7	50	6	"	Dr.	2,100
J. R. Colburn	Vadercook	7	60	6	"	Sh.	2,053
S. M. Hodge	Danville	7	60	6	"	"	2,000
J. E. Allison	"	7	35	6	"	Dr.	1,855
M. C. Wilkinson	"	7	30	6	"	"	1,700
Carter Bros	"	7	50	6	"	Sh.	1,500
L. E. Baker	Oakwood	7	60	5.6	"	"	1,500
John Swanson	Danville	7	50	6	"	Sl.	1,359
Shepherd Bros	Catlin	7	50	5.6	"	Sh.	1,300
H. Harris	"	7	60	5	"	"	1,300
C. G. Robbins	Danville	7	20	6	Strip	....	1,000
D. Harrington	"	7	60	6	P. R.	Sl.	1,000
H. Wonderlin	"	7	60	6	"	Dr.	1,000
J. C. Cannon	"	7	20	6	Strip	....	1,000
John Woodard	Oakwood	7	60	6	P. R.	Sh.	1,000
T. J. Morton	Danville	7	40	6	"	Dr.	800
B. F. Lloyd	"	7	75	5	"	Sl.	700
Wm. Ray	"	7	40	6	"	"	600
Joseph Bales	"	7	45	6	"	"	600
C. R. Smoot	Vadercook	7	45	6	"	Sh.	600
B. Beddows	Danville	7	48	5	"	Sl.	539
A. O. Daniel	"	7	60	6	"	Sh.	490
J. M. Kinney	Vadercook	7	40	6	"	Dr.	300
Total, 41 mines—16 sh., 13 sl., 9 dr.,	3 str., 38 p. r., 3 str.	....	.....	.....	.....	....	556,015

Physical Character of Coal Mines—Continued.

WILLIAMSON COUNTY.

Name of Operator.	Postoffice. Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
Big Muddy Coal & Iron Co.	Herrin	7	140	9	P. R.	Sh.	310,214
St. Louis & Big Muddy Coal Co	Carterville	7	90	9	"	"	244,470
Southern Ill. Coal M. & W. Co., 2	Marion	7	80	9	"	"	154,108
Carterville Coal Co	Carterville	7	60	9	"	"	144,394
New Ohio Washing Coal Co	"	7	65	9	"	"	105,622
Southern Ill. Coal M. & W. Co., 4	Marion	7	22	9	"	Sl.	101,811
Sunny Side Coal Co	Herrin	7	180	9	"	Sh.	91,662
Williamson County Coal Co	Lake Creek	7	150	8.6	"	"	80,000
Chicago & Carterville Coal Co	Herrin	7	145	9	"	"	76,836
New Ohio Washing Coal Co	Carterville	7	70	9	"	"	65,418
Independent Coal Co	"	7	74	9	"	"	60,000
Crab Orchard Coal Co	Marion	7	40	9	"	"	57,597
Robert Dick Coal Co	Carterville	7	80	9	"	"	33,485
Chicago & Big Muddy Coal Co	Marion	7	81	9	"	"	28,895
Southern Ill. Coal M. & W. Co., 1	"	7	60	9	"	"	25,900
" " " 3	"	7	102	9	"	"	14,598
John A. Young	Carterville	7	40	7	"	"	3,096
John Reed	Herrin	7	40	9	"	"	2,149
Wm. P. Allen	Spillertown	7	8	9	Strip	St.	1,600
New Virginia Coal Co	Lake Creek	7	119	7	P. R.	Sh.	1,307
Robert Canfield	Marion	7	40	9	"	"	553
Total, 21 mines—19 sh., 1 sl., 1 st.,	20 p. r., 1 st.	....	.....	.....	.....	....	1,603,715
Grand total	.....	....	.....	.....	.....	....	3,861,973

WABASH COUNTY.

W. Batson	Keensburg	14	45	3.9	P. R.	Sh.	1,278

SHELBY COUNTY.

M. Brophy	Shelbyville	15	90	2	P. R.	Sh.	13,000
John Richardson	"	15	60	2	"	"	6,000
S. Igo & Son	"	15	98	2	"	"	5,000
B. F. Stretch	"	15	108	2	"	"	2,500
H. C. Gallagher	Mode	15	70	2	"	"	1,000
John Stockdale	Robinson Creek	15	45	2.3	"	"	500
J. A. Bowman	Shelbyville	15	100	2	"	"	50
Total, 7 mines	.....	....	.....	.....	.....	....	28,050

WABASH COUNTY.

A. B. Keen	Frundville	15	30	3	P. R.	Sh.	1,712
T. H. Kelkison	"	15	35	3	"	"	802
Total	.....	....	.....	.....	.....	....	2,514
Grand total	.....	....	.....	.....	.....	....	30,564

Physical Character of Coal Mines—Continued.

GREENE COUNTY.

Name of Operator.	Postoffice Address of Mines.	Physical Character of Mines.					Tons.
		Geological number of seam.	Depth of coal below surface, feet.	Thickness of seam, feet and inches.	Long wall or pillar and room.	Shaft, slope or drift.	
John T. Revis	Roodhouse	*P.	17	Pkt.	P. R.	Sh.	2,500

HAMILTON COUNTY.

J. R. Yates	Dahlgren	....	10	2	Strip	St.	640
J. C. Harper	"	....	8	2	"	"	200
Total		....				....	840

JEFFERSON COUNTY.

G. W. Shelton	Opdyke	....	16	1.6	Strip	St.	113

MACOUPIN COUNTY.

W. A. Bodi	Chesterfield	*P.	50	5.6	P. R.	Sl.	1,322
Thos. Rand	"	"	50	5.6	"	"	720
Davis Bros	"	"	50	5.6	"	Sh.	410
G. B. Loper	"	"	38	5.6	"	"	110
John Harbauer, Jr.	"	"	50	5.6	"	"	55
Total, 5 mines—3 sh., 2 sl		....				....	2,617
Grand total		....				....	6,070

*Pocket.

The following summary by the geological number of seams of coal, reveals the aggregate particulars:

Summary of the Physical Character of the Coal Mines of the State, Geological Number of Seam, Manner of Working, Kind of Opening and Tons Produced.

Geological Number of Seam.	Number of counties.	Number of mines.	Manner of Working.				Character of Openings.				Tons.
			Long wall	Pillar and room.	Drift.	Strip.	Shaft.	Slope.	Drift.	Strip.	
1	13	97	1	91	5	.....	54	9	34	.....	864,533
2	18	163	44	119	.....	.....	78	17	68	.....	5,207,827
3	3	12	.....	12	.....	.....	7	1	4	.....	19,499
4	2	6	.....	6	.....	.....	3	2	1	.....	17,630
5	22	209	3	205	.....	1	126	36	46	1	7,892,347
6	23	290	.....	288	.....	2	202	31	55	2	8,733,598
7	11	119	.....	115	.....	4	89	17	9	4	3,861,973
14	1	1	.....	1	.....	.....	1	.....	.....	.....	1,278
15	2	9	.....	9	.....	.....	9	.....	.....	.....	30,564
Pocket	4	9	.....	6	.....	3	4	2	.....	3	6,070
Totals	.....	915	48	852	5	10	573	115	217	10	26,635,319

It is assumed that the foregoing presentation will be appreciated as a valuable reference contribution to all persons interested in the coal industry of Illinois.

Chemical Analyses

AND

HEATING VALUES OF ILLINOIS COALS.

ANALYSES AND HEATING VALUES OF ILLINOIS COALS.

Through the courtesy Professor S. W. Parr, of the University of Illinois, a very interesting presentation is here given of the chemical analysis and heating valves of the different grades of coal of Illinois.

The secretary of the Bureau of Labor Statistics desires to hereby present public acknowlegement to Professor Parr and his associates, of the University of Illinois, for this very valuable contribution to the statistics of coal in this State.

The article and tables follow:

The Chemical Analyses and Heating Values of Illinois Coals.

[By S. W. Parr, Professor of Applied Chemistry, and F. C. Koch, Inspector in Chemistry, University of Illinois, Urbana, Ill.]

The proximate analysis of Illinois coals made at the University of Illinois from the year 1878 to the present time are herewith presented in tabular form. There have been included also results from other sources so far as they have been accessible and seemed to be reliable. The value of such data is indicated from the constant inquiries for the same, and we are under obligations to Hon. David Ross, secretary of the Bureau of Labor Statistics for making it thus available for general reference. It is to be regretted that the work has been of such haphazard and unsystematic a nature, and it is sincerely hoped that the presentation of this summary will stand as a somewhat severe reflection against the great State of Illinois for what she has not done in connection with her coal interests. Standing second only to Pennsylvania in the amount and value of her coal output, she still lacks even the most rudimentary attempt at a scientific or economic study of her mineral resources while our neighbors have made very complete and valuable surveys.

The most serious defect in the work here presented is the variable methods of taking the samples. Those taken by W. D. Rudy in 1878 are stated to have been taken at the mine by cutting across the face of the vein (Uni. of Ill. Report 1878). These number seventeen and have been labeled "vein samples". The next work at the University was done by R. B. McConney and F. H. Clark in 1889 in connection with theses on the "Heating Power of Illinois Coals." These samples were taken from carload lots, but there is no statement indicating the size of coal, lump, slack, etc. However, since the

use of slack under boilers at that time was a somewhat unusual practice, but recently taken up by electric lighting plants, and since the uniform custom at the University then was to purchase lump coal, it is fair to assume that these 29 samples are all "lump." The analyses dated 1895, 1896 and 1897 are mainly from car lots sampled in connection with boiler tests conducted at the University by the department of Mechanical Engineering under the direction of Prof. L. P. Breckenridge.

The analytical results have all been obtained according to established methods, and are given in percentages.

Moisture—As is the general custom in this country, these percentages refer to the commercially dry coal, that is, the coal as it comes from the mine, and is supposed to reach the consumer without the addition or extraction of water. It is to be noted that there is a difference between "commercially dry" and "oven" or "chemically" dry coal. A sample may be to all appearance dry, yet upon heating for an hour at the temperature of boiling water or slightly above, there is removed a certain amount of water which has been held in some invisible or combined state. This water varies greatly with different coals, being rarely below three or four per cent, and sometimes reaching as high as 12 per cent, the average being perhaps seven or eight per cent.

In the coals of Europe a marked difference exists in this respect; an amount of water exceeding three or four per cent being unusual, while the average is two or three per cent. Much the same condition prevails with the soft coals and semianthracites of the eastern United States, while the brown coals or lignites of both Europe and America have a high per centage of water, averaging 12 to 15 per cent. It is probable then that coals of the Mississippi Valley stand geologically midway between the anthracite coals of the east and the lignites of the south and northwest.

Ash—The content of moisture together with the ash constitutes the inert material of the coal. Indeed, these ingredients are not only inert, but to a certain degree negative in their effect; for example, the heat necessary to bring the water up to the vapor point is held by the steam thus formed and carried away and lost. The ash also tends to prevent a full and complete combustion of the coal and may carry away mechanically, unburnt material. It is evident, therefore, that in proportion as these constituents are high in amount, there is a decrease in value, both on account of the inert material as also from the negative property of the same.

Combustible Material—The remaining constituents after the water and ash, we may consider in general as combustible material. This divides sharply into two classes, that which easily volatilizes and becomes gaseous and that remaining fixed and burning as coke. Because of the ready volatility of the first, it is liberated in great volume when fresh coal is added to a free fire. Because the admission of air is regulated for the average conditions, much of this gaseous product is unsupplied with the necessary oxygen and so passes off unburned. For this and other reasons it is evident that the greatest efficiency is likely to be gotten out of those coals lowest in volatile matter and highest in fixed carbon, but it may fairly be asked whether this is not a fault

in the method of burning rather than in the coal itself. The volatile constituents of the coal begin passing off at about 700 degrees Fah. and the process when once started is very rapid for the major part of the gaseous constituents. It is just at this time when insufficient oxygen results in incomplete combustion, which is made evident to the eye by dense volumes of smoke. But the problems connected with perfect combustion and avoidance of smoke are many and varied, and can not be entered into here. The point only is made that at present with our faulty methods, we get a higher ratio of the heat content out of those coals having the lowest volatile constituents and we lose the most in case of coals which are relatively low in fixed carbon.

Heat Value—This brings us to the question of Calorific value. One pound of coal in burning is capable of raising one pound of water a certain number of degrees. These degrees (Fah.) are called the Brittish Thermal Units. This is the theoretical or actual heat possibility of a coal. Practically by reason of faulty combustion and loss of heat in various ways only a part of this theoretical heat content is utilized; the average steam boiler having perhaps an efficiency of 60 per cent. From the above it will be evident how desirable it is to determine in all cases the actual Calorific content of a coal. Methods for determining this factor are numerous. If the amount of carbon and hydrogen available for combustion are known a simple calculation based on the known heat values of these constituents according to Dulong's formula will give the calorific value thus $14600\ C+62000\ (H-\frac{O}{8})$ in which C. H. and O refer to the amounts of carbon, hydrogen and oxygen respectively, the numerical coefficients being the accepted heat values for carbon and hydrogen. This requires an ultimate analysis of the coal, a somewhat elaborate process and requiring the services of an expert chemist to perform.

In Table II are given the results of such analyses of Illinois coals so far as they are available.

Various instruments for indicating directly the calorific values have been devised, but that general use has not been made of them which the importance of the subject demands. This has no doubt resulted in the case of some of the forms of instrument from the unreliable and faulty readings obtained. A new type of Calorimeter devised by one of us (Parr JNL. Am. Chem. Soc. Vol. XXII) because of its simplicity and accuracy has greatly extended the number of calorific determinations and it is hoped will give a new impetus as also a valuable aid to the study of coal combustion.

Sulphur. Sulphur occurs in coal chiefly as iron pyrites calcium sulphate and sulphur organically combined with the coal. The first is chiefly responsible for the formation of clinker. In the manufacture of gas, part of the sulphur passes off in some volatile combination. If this combination is organic as carbon bisulphide ($C\ S_2$) it is not removed in the process of purification whereas other forms as sulphuretted hydrogen ($H\ S_2$) are removed with comparative ease. Hence for purposes of gas manufactures it is not so much the amount of sulphur as the condition or combination. Moreover the usual belief that half of the sulphur passes off with the gas and half remains

in the coke is erroneous, at least for Illinois coals. This is well illustrated in Table III. There is here offered a very suggestive field of study for the gas manufacturer.

Coke. That the coking of Illinois coals is possible has been demonstrated by recent developments in that line. Since the use of this product is chiefly metallurgical the sulphur question is an important one. Here again some suggestive facts are offered in Table III. The percentages of fixed carbon in Table I, plus the ash content, give roughly the amount of coke available, though smaller than should be realized in practice since in the process of coking much of the carbon of the volatile matter is "fixed" or made a part of the coke. The tables referred to follow:

TABLE I.—*Chemical Analysis and Heating Values of Illinois*

Number.	Location of Mine.		Description or grade of coal used.	Geological number of seam.	Date of Analysis.	
	Town.	County.			Month.	Year.
1	Assumption	Christian		1		1889
2	"	"	Block	1		
3	"	"	Lump	1		
4	Astoria	Fulton	Average	5	January	1898
5	Athens	Menard		5		1897
6	"	"		5	March	1897
7	Auburn	Sangamon	Screenings	5		
8	Augusta	Hancock		2	July	1898
9	Barclay	Sangamon		5		
10	"	"	Vein sample	5		1878
11	Belleville	St. Clair		6		
12	Big Muddy	Jackson		7		
13	"	"		7		
14	"	"		7		
15	"	"		7		
16	"	"		7		
17	"	"		7		
18	"	"		7		1889
19	Bloomingeon	McLean	Vein sample	5		1878
20	"	"	Lump	5		1896
21	"	"		5		1889
22	Briar Bluff	Henry	Vein sample	1		1878
23	Bryant	Fulton	Average	5		
24	"	"	Select	5		
25	Buckhart	"	Average	5		
26	"	"	Select	5		
27	Canton	"	Average	5		
28	"	"	Select	5		
29	Carbondale	Jackson	Vein sample	7		1878
30	"	"		7		
31	"	"		7	May	1896
32	"	"		7	"	1896
33	Carterville	Williamson	Mine run	7	"	1900
34	"	"	Washed, No. 1	7	"	1900
35	"	"	" No. 2	7	"	1900
36	"	"	" No. 3	7	"	1900
37	"	"	" No. 4	7	"	1900
38	"	"	Dust from washer	7	"	1900
39	"	"	Washed No. 2	7	March	1898
40	"	"	"	7	"	1898
41	Catlin	Vermilion	Vein sample	7		1878
42	Centralia	Marion		6		1889
43	"	"	Duff	6		
44	"	"	"	6		
45	Claire	Fulton	Average	5		
46	"	"	Select	5		
47	Colchester	McDonough		2	July	1898
48	"	"		2		
49	"	"	Slack	2		
50	Colfax	McLean	Nut, No. 2	6		
51	Collinsville	Madison		6		
52	Cuba	Fulton	Average	5		
53	"	"	Select	5		
54	"	"		5	July	1898
55	Danville	Vermilion	Vein sample	7		1878

Coals Comprising 260 Tests from 94 Different Locations.

Proximate Analysis.							Authority.	
Moisture.	Volatile matter	Fixed carbon.	Ash.	Sulphur.	British thermal units per pound of coal.	Calorimeter used.	Institution.	Chemist.
3.90	41.20	50.10	4.80	.....	13,068	L. Thompson.....	University of Ill.	Clark .....
7.25	37.76	47.86	7.13	2.94	.....	.....	"	L. Smith.....
7.97	37.24	43.56	11.23	5.21	.....	.....	"	" .....
12.26	40.00	39.40	8.34	3.16	11,025	L. Thompson.....	"	Wolcott.....
10.01	35.57	43.60	10.82	2.40	.....	.....	"	L. Smith.....
12.11	35.18	41.95	10.76	.....	12,150	L. Thompson.....	"	.....
*	37.50	47.30	15.20	.....	11,193	Corpenter	.....	Carpenter .....
10.78	44.37	41.32	3.53	2.48	11,745	L. Thompson.....	University of Ill.	Wolcott.....
7.40	35.70	46.20	10.70	.....	11,205	"	"	McConney.....
10.08	27.32	45.60	17.00	3.21	.....	.....	"	Rudy .....
7.05	33.05	50.40	9.50	.....	.....	.....	.....	.....
4 85	31.39	57.80	5.46	2.75	.....	.....	.....	.....
6.12	30.05	53.74	9.19	1.22	11,529	.....	.....	Eng. Club. St. L..
6.35	31.50	55.25	6.90	2.02	12,657	.....	.....	.....
7.39	28.28	53.87	10.46	.98	11,466	.....	.....	.....
5.85	31.84	55.72	6.59	2.92	11,781	.....	.....	.....
6.02	32.86	53.89	7.73	1.09	.....	.....	University of Ill.	L. Smith.....
7.85	32.15	56.00	4.00	.....	12,825	L. Thompson.....	"	Clark .....
7.90	34.02	53.12	4.96	1.97	12,318	Cal. from ult. anal..	"	Rudy .....
3.80	43.90	43.50	8.80	.....	11,970	L. Thompson.....	"	Parr .....
4.10	35.99	45.20	14.71	.....	11,313	"	"	McConney.....
12.60	28,96	48.54	9.90	4.62	.....	.....	"	Rudy .....
2.42	32.91	42.69	22.03	3.16	9,940	.....	.....	Forsyth.....
3.88	38.05	48.75	9.32	.....	11,835	.....	.....	.....
6.14	29.94	46.27	17.65	.....	10,258	.....	.....	Forsyth.....
8.92	33.52	48.06	9.50	.....	11,284	.....	.....	.....
3.51	36.99	46.69	12.81	.....	10,945	.....	.....	Forsyth .....
4.40	38.32	48.09	9.19	.....	11,584	.....	.....	.....
6.32	26.40	59.88	7.40	.80	12,323	Cal. from ult. anal..	University of Ill.	Rudy .....
4.25	33.65	57.50	4.60	.....	12,582	L. Thompson.....	"	Clark .....
6.08	39.78	46.22	7.92	.....	11,070	"	"	Parr .....
6.18	34.10	49.12	10.60	.....	11,430	"	"	" .....
4.87	34.11	52.17	8.85	.85	12,214	Parr	"	Koch.....
4.66	33.99	54.21	7.14	.74	12,286	"	"	" .....
4.31	35.12	55.01	5.56	.86	12,934	"	"	" .....
3.98	34.66	53.04	8.32	.87	.....	.....	.....	" .....
4.86	33.26	55.29	6.59	1.15	12,345	Parr	University of Ill.	" .....
5.50	32.97	50.01	8.52	1.16	.....	.....	.....	.....
5.76	30.25	57.32	6.67	1.18	12,420	L. Thompson.....	University of Ill.	Koch.....
7.35	34.20	52.34	6.11	1.05	11,781	.....	"	" .....
7.80	31.08	48.42	12.70	3.96	.....	.....	"	Rudy .....
8.28	38.18	45.50	8.04	.....	.....	L. Thompson.....	"	McConney.....
1.50	36.10	36.00	26.40	4.04	.....	.....	"	.....
4.88	35.59	40.11	19.42	3.58	9,988	.....	"	.....
3.16	32.94	43.05	20.85	.....	.....	.....	.....	Forsyth.....
5.27	37 30	48.21	9.22	.....	11,795	.....	.....	.....
9.04	34.07	40.09	16.80	1.16	10,600	L. Thompson.....	University of Ill.	Wolcott.....
11.60	25.02	44.76	18.62	.....	9,848	.....	.....	Eng. Club, St. L.
5.30	25.48	38.12	31.10	1.20	9,035	.....	.....	.....
2.61	41.36	36.96	19.07	4.19	.....	.....	.....	.....
9.20	45.89	31.57	13.34	5.34	10,143	.....	.....	Eng. Club, St. L..
4 17	36.38	48.62	10.83	.....	11,370	.....	.....	Forsyth.....
6.59	35.85	49.91	7.65	.....	11,582	.....	.....	.....
10.42	36.93	40.96	11.69	4.60	10,800	L. Thompson.....	University of Ill.	Wolcott.....
9.60	31.20	44.56	14.64	2.72	.....	.....	"	Rudy .....

Table I—

Number.	Location of Mine.		Description of grade of coal used.	Geological number of seam.	Date of Analysis.	
	Town.	County.			Month.	Year.
56	Danville	Vermilion		7		
57	"	"		7		
58	"	"		7		
59	"	"		7		
60	"	"	Screenings	7	May	1896
61	"	"	Lump	7	March	1900
62	"	"	"	7	"	1900
63	Dawson	Sangamon	Pea	5	"	1899
64	"	"		5		1899
65	DeSota	Jackson	Mine run	7	November	1899
66	"	"	No. 1 washed	7	"	1899
67	"	"	No. 2 washed	7	"	1899
68	"	"	No. 3 washed	7	"	1899
69	"	"	No. 4 washed	7	"	1899
70	"	"	Refuse from washer	7	"	1899
71	Divernon	Sangamon	Lump	5	May	1901
72	Dumfermline	Fulton	Average	5		
73	"	"	Select	5		
74	"	"	Slack	5		
75	"	"		5	June	1898
76	"	"		5		
77	DuQuoin	Perry		6		1897
78	"	"	Vein sample	6		1878
79	"	"		6		
80	"	"	Nut	6		
81	"	"		6		
82	"	"		6		
83	"	"	Lump	6	February	1895
84	"	"		6	September	1895
85	"	"	"	6	June	1896
86	"	"	Slack	6	May	1898
87	"	"		6	January	1895
88	"	"	Lump	6		
99	"	"		6		
90	"	"	Pea	6		
91	"	"	Jupiter	6		
92	Edwards	Peoria	Average	5		
93	"	"	"	5		
94	"	"	Select	5		
95	"	"	"	5		
96	Elmwood	"		2	July	1898
97	"	"	3d vein	2	July	1898
98	"	"	5th vein	2	"	1898
99	"	"	6th vein	2	"	1898
100	"	"	Average	2		
101	"	"	Select	2		
192	"	"	Vein sample	2		1878
103	Fairmount	Vermilion	Screenings	7	December	1896
104	"	"	"	7		
105	Farmington	Fulton		5	July	1898
106	"	"	Average	5		
107	"	"	Select	5		
108	"	"	Vein sample	5		1878
109	Fiatt	"		5	July	1898
110	Forest	Livingston	Drill core, vein 1	5	October	1898
111	"	"	Drill core, vein 2	†	"	1898
112	Galva	Henry		6	July	1898
113	Gilchrist	Mercer		1	"	1898
114	"	"		1		
115	Gillespie	Macoupin		5		
116	"	"		5		
117	"	"		5		
118	Girard	"		5		
119	"	"		5		
120	"	"	Pea	5		
121	Glen Carbon	Madison	Lump	6	May	1901
122	Grape Creek	Vermilion	Vein sample	6	July	1878
123	Greenview	Menard		5	"	1900
124	Greenridge	Macoupin		5		

Continued.

Proximate Analysis.						Calorimeter used.	Authority.	
Moisture.	Volatile matter	Fixed carbon.	Ash.	Sulphur.	British thermal units per pound of coal.		Institution.	Chemist.
6.40	33.23	51.12	9.25	3.12	.....	.....	.....	.....
4.78	43.70	45.37	6.15	.....	12,506	L. Thompson.....	University of Ill.	McConney.....
5.62	37.07	46.43	10.88	.....	11,655	"	"	" .....
11.00	32.35	53.00	3.65	.....	12,285	"	"	Clark .....
9.40	33.30	34.20	23.10	.....	9,360	.....	"	Parr .....
7.56	47.47	40.50	4.47	3.62	.....	.....	"	Koch.....
8.06	40.64	47.37	3.93	1.27	.....	.....	"	" .....
12.54	33.65	41.40	12.41	5.09	.....	.....	"	Johnson .....
9.38	35.25	43.17	12.20	2.83	.....	.....	"	Koch.....
4.32	34.08	51.18	10.42	1.46	.....	.....	"	" .....
5.27	34.63	52.04	8.06	1.73	.....	.....	"	" .....
4.34	35.72	51.62	8.32	2.03	.....	.....	"	" .....
4.32	36.76	49.40	9.52	1.70	.....	.....	"	" .....
3.82	35.77	52.46	7.95	2.28	.....	.....	"	" .....
2.88	22.71	28.65	45.76	2.80	.....	.....	"	" .....
8.69	34.72	38.59	18.00	6.03	10,262	Parr	"	" .....
2.46	32.91	45.57	19.06	.....	10,471	.....	.....	Forsyth.....
3.54	37.59	52.37	6.50	.....	12,065	.....	.....	.....
9.64	28.86	39.48	22.02	.....	9,401	.....	.....	.....
10.95	34.80	36.54	17.71	3.13	10,350	L. Thompson.....	University of Ill.	Wolcott.....
9.60	28.90	39.50	22.00	.....	9,417	.....	.....	Eng. Club, St. L..
8.13	33.15	49.51	9.21	.83	.....	.....	University of Ill.	L. Smith.....
8.86	23.54	60.60	7.00	1.88	11,260	Cal. from ult. anal..	"	Rudy .....
7.03	35.03	44.60	13.34	.....	10,989	L. Thompson.....	"	Parr .....
7.43	38.91	46 00	7.66	.....	11,128	.....	.....	.....
6.84	32.03	53.69	7.44	.....	12,170	L. Thompson.....	University of Ill.	McConney.....
6.67	30.35	54.08	8.90	.....	12,393	"	"	Clark .....
7.43	39.81	45.10	7.66	.....	.....	.....	"	Parr .....
7.59	35.77	47.53	9.11	.....	11,250	L. Thompson.....	"	" .....
9.14	34.61	50.85	5.40	.....	12,060	"	"	" .....
6.05	35.95	41.60	16.40	5.14	11,050	"	"	Wolcott.....
7.02	35.03	44.56	13.39	.....	10,989	"	"	Parr .....
3.85	37.39	48.54	10.22	1.86	.....	.....	Illinois Steel Co..	.....
1.81	36.04	44.12	18.03	3.99	.....	.....	"	.....
3.15	38.94	39.99	17.92	3.18	.....	.....	"	.....
11.30	30.30	49.90	8.50	.90	10.710	.....	.....	Eng. Club, St. L..
3.20	35.48	47.77	13.55	.....	10,945	.....	.....	.....
1.90	34.48	43.62	20.00	.....	9,940	.....	.....	Forsyth.....
5.04	33.96	49.56	11.44	.....	11,051	.....	.....	.....
4.08	38.24	52.17	5.51	.....	12,037	.....	.....	.....
9.38	44.45	40.76	5.41	2.61	12,330	L. Thompson.....	University of Ill.	Wolcott .....
8.70	43.63	41.30	6.37	2.75	12,420	"	"	" .....
10.55	36.78	42.30	10.37	1.29	11,520	"	"	" .....
9.30	35.50	43.90	11.30	3.16	11,250	"	"	" .....
1.36	27.69	35.41	35.54	.....	8,820	.....	.....	Forsyth.....
1.90	34.70	48.23	15.17	.....	11,051	.....	.....	.....
7.60	27.60	55.30	9.50	2.18	.....	.....	University of Ill.	Rudy .....
10.67	36.46	39.85	13.02	.....	10,890	L. Thompson.....	"	Parr .....
8.10	31.80	47.05	13.05	.....	11,431	"	"	Clark .....
11.22	35.93	36.60	16.25	3.98	10,530	"	"	Wolcott .....
3.44	33.88	45.89	16.82	.....	10,471	.....	.....	Forsyth.....
6.17	35.96	48.49	9.38	.....	11,534	.....	.....	.....
8.52	29.28	50.48	11.72	3.28	.....	.....	University of Ill.	Rudy .....
12.54	35.86	40.04	11.56	4.67	10,890	L. Thompson..	"	Wolcott .....
5.19	39.37	42.99	12.45	2.81	.....	.....	"	.....
4.36	44.83	40.04	10.77	3.76	.....	.....	"	.....
10.39	36.72	36.54	16.35	3.26	10,080	L. Thompson.....	"	Wolcott .....
7.48	36.94	35.32	20.26	4.86	10,620	Parr	"	" .....
8.40	31.20	54 80	5.60	.....	.....	.....	.....	.....
3.77	34.94	49.55	11.74	.....	.....	.....	.....	.....
12.61	30.58	45.27	11.54	1.50	9,739	.....	.....	Eng. Club, St. L..
*	36.26	51.41	12.33	.....	10,870	Carpenter	.....	Carpenter .....
9.70	34.39	45.76	10.15	3.50	9.954	.....	.....	Eng. Club, St. L..
8.90	32.20	42.90	16.00	8.10	10,287	.....	.....	"
.95	36.85	40.24	21.96	3.56	.....	.....	Illinois Steel Co..	.....
7.85	39.13	40.66	12.36	4.87	11,539	Parr	University of Ill.	Koch.....
9.74	28.34	51.32	10.60	3.63	.....	.....	"	Rudy .....
10.94	39.20	41.21	8.65	3.15	11,082	Parr	"	Johnson .....
9.26	42.22	42.17	6.35	2.62	.....	.....	.....	.....

Table I—

Number.	Location of Mine. Town.	County.	Description of grade of coal used.	Geological number of seam.	Date of Analysis. Month.	Year.
125	Heintz Bluff	St. Clair		6		
126	Herrin	Williamson	Vein sample	7	October	1900
127	Ivesdale	Champaign	Drill core	†	January	1902
128	Johnson	St. Clair		6		
129	Kewanee	Henry	Vein sample	6		1878
130	Kinmundy	Marion		6		1897
131	"	"		6		
132	Ladd	Bureau		2		
133	"	"		2		
134	"	"		2		
135	Lake Creek	Williamson		7	March	1898
136	Lancaster	Peoria		†		
137	LaSalle	LaSalle		2		1889
138	"	"		2		
139	Lincoln	Logan		5		
140	"	"		5		1889
141	"	"		5		1889
142	"	"	Vein sample	5		1878
143	Lombardville	Bureau	"	†		1878
144	Looses	Sangamon		5		
145	Mapleton	Peoria		5		
146	Morris	Grundy	Average	2		
147	"	"	Select	2		
148	"	"		2		
149	Moweaqua	Shelby	Lump	5	January	1895
150	"	"	Lump, vein 1	5	December	1895
151	"	"	Lump, vein 2	....	"	1895
152	"	"	Lump, vein 5	....	"	1895
153	"	"		5		
154	Mt. Carbon	Jackson		2		
155	"	"	Vein sample	2		1878
156	Mt. Olive	Macoupin		5		
157	"	"		5		1889
158	"	"		5		1889
159	"	"		5	February	1895
160	"	"		5		
161	"	"	Lump	5	May	1901
162	Mt. Pulaski	Logan		5		
163	Muddy Valley	Perry	Lump	6	July	1896
164	Murphysboro	Jackson		1	March	1900
165	"	"	New Kentucky	1		
166	"	"	New Kentucky nut	1		
167	Niantic	Macon	Nut	5	January	1895
168	"	"		5		1889
169	"	"		5		1889
170	Oakland	St. Clair		6		
171	Oakwood	Vermilion		7		1889
172	Odin	Marion	Lump	6	January	1895
173	"	"	"	6	February	1895
174	"	"	"	6	April	1895
175	"	"	Pea	6	July	1896
176	"	"	"	6	October	1896
177	"	"	Lump	6	November	1896
178	"	"	"	6	"	1896
179	"	"	"	6	"	1896
180	"	"	Slack	6	December	1896
181	"	"	Lump	6	January	1897
182	"	"	Pea	6	"	1897
183	"	"	Lump	6	February	1897
184	"	"	"	6	"	1867
185	"	"	Pea	6	March	1897
186	"	"	"	6	"	1898
187	"	"		6	"	1895
188	"	"	Pea	6	"	1897
189	"	"	"	6	"	1899
190	"	"	"	6	"	1899
191	"	"		6		1889
192	"	"	Lump	6	February	1896

Continued.

Proximate Analysis.							Authority.	
Moisture.	Volatile matter	Fixed carbon.	Ash.	Sulphur.	British thermal units per pound of coal.	Calorimeter used.	Institution.	Chemist.
8.95	37.81	48.24	5.00	3.30	10,332			Eng. Club, St. L..
4.22	34.66	51.49	9.63	2.78	11,980	Parr	University of Ill.	Koch
5.68	35.89	49.27	9.16	.....	11,920	"	"	Kofoid
5.50	40.41	40.26	13.83	4.80	.....			
15.60	27.60	49.66	7.14	2.22	.....		University of Ill.	Rudy
6.15	33.63	42.78	17.44	7.25	.....		"	L. Smith
7.00	34.00	47.45	11.15	.....	11,664	L. Thompson	"	Clark
8.49	33.53	44.12	13.86	.....	10,790			
.....	36.70	48.20	15.10	.....	12,771			
12.00	32.30	42.50	13.80	.....	.....			
3.42	39.30	53.20	4.08	1.72	12,240	L. Thompson	University of Ill.	Parr
4.65	30.85	59.80	4.70	1.70	.....			
8.22	39.40	43.95	8.43	.....	12,169	L. Thompson	University of Ill.	McConney
5.87	34.03	48.50	11.60	3.87	.....			
8.36	34.19	46.88	10.57	2.59	.....		University of Ill.	L. Smith
8.45	34.99	44.50	12.06	.....	11,272	L. Thompson	"	McConney
7.50	31.30	49.50	11.70	.....	11,718	"	"	Clark
10.92	27.60	46.64	14.84	4.99	.....		"	Rudy
9.42	31.38	51.74	7.46	2.46	.....		"	"
10.71	37.62	45.07	6.60	2.39	.....			Eng. Club, St. L..
5.05	30.98	59.05	4.95	1.74	.....			
7.10	32.12	49.74	11.04	.....	10,684			Forsyth
7.49	35.19	54.45	2.87	.....	12,384			
6.45	30.86	52.82	9.87	3.32	.....			
9.18	39.58	43.75	7.49	.....	11,700	L. Thompson	University of Ill.	Parr
8.77	36.57	45.57	9.09	.....	.....		"	"
7.08	42.80	42.14	7.98	.....	.....		"	"
8.00	39.53	46.00	6.47	.....	.....		"	"
7.17	37.00	42.09	13.74	.....	10,383		"	"
6.37	32.69	59.13	1.81	.76	.....			
6.12	24.68	66.58	2.70	.60	12,707	Cal. from ult. anal.	University of Ill.	Rudy
10.38	36.68	46.10	6.84	3.53	.....			
7.97	36.43	44.49	11.11	.....	11,441	L. Thompson	University of Ill.	McConney
5.30	35.00	51.50	8.20	.....	11,772	"	"	Clark
7.99	38.59	44.51	8.91	.....	.....		"	"
8.10	33.10	41.10	14.70	.....	.....			
9.63	38.33	40.22	11.82	6.78	11,072	Parr	University of Ill.	Koch
7.68	35.82	46.53	9.97	.....	11,360	L. Thompson	"	McConney
7.11	40.37	48.23	4.29	.....	11,880	"	"	Parr
3.26	35.61	56.37	4.76	.76	.....		"	Koch
3.71	36.25	50.30	9.74	1.50	.....		Illinois Steel Co..	
5.13	36.36	49.44	9.07	1.17	.....			
4.44	34.25	40.55	20.79	.....	10,706	L. Thompson	University of Ill.	
7.88	36.25	47.80	8.47	.....	11,529	"	"	McConney
11.85	34.15	45.50	8.50	.....	11,529	"	"	Clark
8.30	34.40	43.12	14.18	4.42	10,395			Eng. Club, St. L..
7.80	37.55	46.00	8.65	.....	12,528	L. Thompson	University of Ill.	Rudy
6.20	40.25	46.02	7.53	.....	11,880	"	"	Parr
6.32	37.73	44.45	11.50	.....	.....		"	"
7.10	34.90	48.09	9.91	.....	11,250	L. Thompson	"	"
5.09	37.93	42.30	14.68	.....	10,980	"	"	"
7.28	41.25	45.23	6.24	.....	11,700	"	"	"
7.24	40.76	45.77	6.23	.....	12,240	"	"	"
7.92	38.39	45.57	8.12	.....	12,240	"	"	"
8.11	35.73	44.62	11.54	.....	11,520	"	"	"
8.00	34.31	42.26	15.43	.....	11,160	"	"	"
3.50	38.30	47.35	10.85	.....	12,330	"	"	"
4.20	36.22	44.23	15.35	.....	11,790	"	"	"
8.42	34.07	41.85	15.70	.....	11,790	"	"	"
8.55	36.10	44.15	11.20	.....	11,520	"	"	"
7.71	35.43	42.44	14.42	.....	11,520	"	"	"
7.25	38.17	43.23	11.35	3.61	10,890	"	"	Koch
6.32	37.73	44.45	11.50	.....	11,946	"	"	Parr
6.48	31.95	39.54	22.03	.....	.....		"	"
6.70	34.65	46.70	11.95	3.43	.....		"	Johnson
4.70	33.78	46.05	15.47	4.80	.....		"	Koch
6.07	33.99	50.86	9.08	.....	11,954	L. Thompson	"	McConney
9.10	36.46	47.22	7.22	.....	11,430		"	Parr

Table I—

Number.	Location of Mine. Town.	County.	Description of grade of coal used.	Geological number of seam.	Date of Analysis. Month.	Year.
193	Odin	Marion		6		1889
194	"	"	Pea	6		1897
195	"	"	Lump	6		1897
196	"	"	Pea	6	May	1900
197	Oglesby	LaSalle	Vein sample, 2d vein	....		1878
198	"	"	Vein sample, 3d vein	....		1878
199	Pana	Christian		6		1889
200	"	"	Slack	6	March	1898
201	"	"	Pea	6		
202	"	"	Duff	6		
203	"	"	Nut	6	December	1902
204	Peoria	Peoria	Average	5		
205	"	"	Select	5		
206	Peru	LaSalle		2		1889
207	"	"	2d and 3d veins	2		1878
208	Pottstown	Peoria	Average	5		
209	"	"	Select	5		
210	Reinecke	St. Clair		6		
211	Ridgely	Sangamon		5	February	1899
212	"	"	Pea	5	March	1899
213	Riverton	"		5		
214	"	"		5		1889
215	"	"		5		1889
216	"	"		5	March	1899
217	"	"	Pea	5		
218	Rushville	Schuyler		5		
219	St. David	Fulton	Average	5		
220	"	"	Select	5		
221	"	"	Average	5		
222	"	"	Select	5		
223	St. Bernard	St. Clair		6		
224	St. Johns	Perry	Paradise lump	6	July	1896
225	"	"	"	6	February	1896
226	"	"		6		
227	"	"		6		
228	Sandoval	Marion		6		1889
229	Seatonville	Bureau		2		
230	Spaulding	Sangamon	Lump	5	February	1897
231	Springfield	"		5		1897
232	Springfield Junction	"		5	February	1899
233	Spring Valley	Bureau	Washed screenings	2	May	1899
234	Staunton	Macoupin		5		
235	"	"	Lump	5		
236	Streator	LaSalle	Average	7		
237	"	"	Select	7		
238	"	"	Average	7		
239	"	"	"	7		
240	"	"		7		
241	"	"		7		
242	"	"	Lump	7		
243	"	"	Nut	7		
244	"	"	Screenings	7		
245	"	"	"	7		
246	"	"	"	7		
247	Sugar Creek	Wabash	Hand sample	15	January	1901
248	Sunnyside	Williamson	Washed No. 2	7	"	1902
249	Toluca	Marshall		2	July	1898
250	Trenton	Clinton		7		
251	"	"		7		
252	Virden	Macoupin	Nut	5		
253	Vulcan	St. Clair	"	6		
254	"	"		6		
255	Williamsville	Sangamon	Nut	5		
256	"	"	Pea	5		
257	Wilmington	Will		2		
258	"	"	Lump	2		
259	"	"	Screenings	2		
260	"	"	Washed screenings	2		

† Borings seam not determined.

Concluded.

Proximate Analysis.							Authority.	
Moisture.	Volatile matter	Fixed carbon.	Ash.	Sulphur.	British thermal units per pound of coal.	Calorimeter used.	Institution.	Chemist.
5.90	41.10	46.90	6.10	.....	12,663	L. Thompson	University of Ill.	Clark .....
6.48	31 95	39.54	22.03	4.31	.....	.....	"	L. Smith.....
6.81	37.05	44.23	11.91	2.68	.....	.....	"	" .....
7.27	35.76	42.96	14.01	3.88	11,194	Parr	"	Koch.....
12.12	30.84	49.32	7.72	2.02	.....	.....	"	Rudy.....
10.06	30.34	55.88	3.72	2.27	.....	.....	"	" .....
7.22	36.37	46.95	9.46	.....	11,610	L. Thompson	"	McConney.....
8.55	35.45	39.35	16.65	4.77	9,810	"	"	Koch.....
4.70	41.20	40.60	13.50	3.68	.....	.....	Illinois Steel Co..	.....
4.88	35.59	40.11	19.42	3.58	.....	.....	"	.....
5.30	39.43	46.04	9.23	.....	11,846	Parr	University of Ill.	Kofoid.....
3.22	36.13	49.21	11.44	.....	11,370	.....	.....	Forsyth.....
3.18	39.24	50.36	7.02	.....	11,845	.....	.....	.....
9.00	37.19	47 20	6.61	.....	11,829	L. Thompson	University of Ill.	McConney.....
10.30	33.90	51.26	4.54	3.05	.....	.....	"	Rudy.....
4.58	35.52	45.52	14.38	.....	10,790	.....	.....	Forsyth.....
5.51	35.92	49.76	8.81	.....	11,640	.....	.....	.....
7.56	39.81	42.49	10.14	4.02	.....	.....	.....	.....
9.41	36.94	41.44	12.21	4.09	.....	.....	University of Ill.	Koch.....
9.80	37.33	40.04	12.83	4.19	.....	.....	"	" .....
11.06	37.94	42.98	8.92	3.27	.....	.....	.....	.....
6.38	35.39	48.45	9.78	.....	11,633	L. Thompson	University of Ill.	McConney.....
11.10	38.45	44.30	6.15	.....	12,096	"	"	Clark .....
8.83	36.51	40.56	14.10	4.22	.....	.....	"	Koch.....
3.94	41.10	39.88	15.08	3.96	.....	.....	Illinois Steel Co..	.....
6.00	34.60	52.90	6.50	3.00	.....	.....	.....	.....
2.00	34.60	46.20	17.20	.....	10,732	.....	.....	Forsyth.....
3.07	35.88	52.59	8.46	.....	11,833	.....	.....	.....
1.50	33.77	47.67	17.06	.....	11,051	.....	.....	.....
1.38	37.42	55.89	5.31	.....	12,384	.....	.....	.....
14 40	30.90	48.40	6.40	1.40	.....	.....	.....	Eng. Club, St. L..
9.63	37.00	51.10	2.27	.....	11,970	L. Thompson	University of Ill.	Parr .....
10.72	34.56	48.34	6.38	.....	11,700	"	"	" .....
9.82	28.35	45.75	16.08	2.06	9,768	.....	.....	Eng. Club, St. L..
13.60	24.46	46.54	15.40	1.83	9,828	.....	.....	" "
7.19	35.07	50.86	6.88	.....	11,959	L. Thompson	University of Ill.	McConney.....
10.00	33.80	40.90	15.30	.....	.....	.....	.....	.....
12.47	35.44	40.57	11.52	.....	10,980	L. Thompson	University of Ill.	Parr .....
10.45	35.89	41.68	11.98	2.99	.....	.....	"	L. Smith.....
9.11	37.04	43.52	10.33	3.65	.....	.....	"	Koch.....
12.40	35.58	39.01	13.01	2.81	.....	.....	University of Ill.	" .....
6.27	57.11	26.30	10.32	.....	.....	.....	.....	.....
*	36.00	48.00	16.00	.....	11,508	Carpenter	.....	Carpenter .....
4.45	39.19	44.05	12.31	.....	11,399	.....	.....	Forsyth.....
2.16	40.20	54.97	2.67	.....	13,147	.....	.....	.....
8.30	37.63	45.93	8.14	.....	11,476	.....	.....	.....
8.40	38.25	47.10	6.25	.....	11,727	.....	.....	.....
6.87	32.43	49.70	11.20	3.12	.....	.....	.....	.....
12.01	35 32	48.78	3.89	2.38	11,420	.....	.....	Eng. Club, St. L..
*	39.40	48.20	12.40	.....	12,614	Carpenter	.....	Carpenter .....
*	35.60	54.50	9.90	.....	12,794	"	.....	" .....
*	31.40	42.20	26.40	.....	10,304	"	.....	" .....
*	39.60	45.40	15.00	.....	12,155	"	.....	" .....
*	38.40	43.80	17.80	.....	11,590	"	.....	" .....
6.03	41.30	48.79	3.88	1.73	.....	.....	University of Ill.	Koch.....
3.97	33.86	55.28	6.89	.....	12,488	Parr	"	Parr .....
8.95	33.07	41.32	16.66	4.64	10,800	L. Thompson	"	Wolcott.....
13.30	30.40	52.00	4.30	.90	10,588	.....	.....	Eng. Club, St. L..
9.95	31.04	51.96	7.05	1.00	11,234	.....	.....	" "
5.15	40.82	43.54	10.49	3.78	.....	.....	Illinois Steel Co..	.....
7.44	30.86	45.09	16.61	1.30	9,450	.....	.....	Eng. Club, St. L..
10.30	27.90	49.00	12.80	.70	10,625	.....	.....	" "
2.45	43.50	41.69	12.36	4.20	.....	.....	Illinois Steel Co..	.....
2.65	42.25	42.62	12.48	3.70	.....	.....	"	.....
7.12	32.11	49.46	11.25	3.40	.....	.....	.....	.....
*	36.80	49 90	13.30	.....	12,180	Carpenter	.....	Carpenter .....
*	32.60	39.70	27.70	.....	9,544	"	.....	" .....
*	34.50	50.20	15.30	.....	12.026	"	.....	" .....

* Dried.

TABLE II.—*Ultimate Analysis, Heat Value, from*

Number in Table I.	Location of Mines.		Description or grade of coal used.	Geological number of seam.	Year of ayalysis.
	Town.	County.			
19	Bloomington	McLean	Vein sample	5	1878
29	Carbondale	Jackson	" "	7	"
78	DuQuoin	Perry	" "	6	"
155	Mt. Carbon	Jackson	" "	2	"

TABLE III.—*Sulphur in Illinois*

Number in Table I.	Location of Mines.		Description or grade of coal used.	Geological number of seam.	Year of analysis.
	Town.	County.			
10	Barclay	Sangamon	Vein sample	5	1878
19	Bloomington	McLean	"	5	"
22	Briar Bluff	Henry	"	1	"
29	Carbondale	Jackson	"	7	"
33	Carterville	Williamson	Mine run	7	1900
34	Carterville	"	No. 1, washed	7	"
41	Catlin	Vermilion	Vein sample	7	1878
55	Danville	"	"	7	"
78	DuQuoin	Perry	"	6	"
102	Elmwood	Peoria	"	2	"
108	Farmington	Fulton	"	5	"
122	Grape Creek	Vermilion	"	6	"
129	Kewanee	Henry	"	6	"
142	Lincoln	Logan	"	5	"
143	Lombardville	Bureau	"	†	"
155	Mt. Carbon	Jackson	"	2	"
197	Oglesby	LaSalle	" 2d vein		"
198	Oglesby	"	" 3d vein		"
207	Peru	"	" 2d & 3d v.	2	"

Special Tests of Vein Samples, Illinois Coals.

Ultimate Analysis.				Sulphur.	Ash.	British thermal units calculated	Authority.
Carbon.	Hydrogen	Oxygen.	Nitrogen.				
68.36	5.94	17.16	1.59	1.97	4.96	12,318	W. D. Rudy.....
69.52	5.42	15.31	1.55	0.80	7.40	12,323	" .....
65.40	5.14	19.06	1.52	1.88	7.00	11,260	" .....
72.98	5.39	16.65	1.68	0.60	2.70	12,707	" .....

Coals, Special Tests, Vein Samples.

Sulphur in coal.	Percentage of			Sulphur per cent of coke.	Authority.	
	Original as sulphur in coke.	Original coal as volatile sulphur.	Total sulphur remaining in coke.		Institution.	Chemist.
3.21	1.37	1.84	42.60	2.21	University of Illinois....	W. D. Rudy
1.97	.76	1.21	38.60	1.30	" "	"
4.62	1.51	3.11	32.70	2.21	" "	"
.80	.48	.32	60.00	.71	" "	"
.85	.38	.48	44.10	.62	" "	F. C. Koch.
.74	.26	.48	35.10	.42	" "	"
3.46	.61	2.85	17.60	.99	" "	W. D. Rudy
2.72	.43	1.29	15.80	.72	" "	"
1.88	.99	.89	50.00	1.46	" "	"
2.18	.77	1.41	35.30	1.18	" "	"
3.28	.84	2.44	25.60	1.35	" "	"
3.63	.97	2.66	26.70	1.57	" "	"
2.22	.84	1.38	38.00	1.47	" "	"
4.99	2.43	2.56	48.70	3.95	" "	"
2.46	.71	1.75	28.80	1.19	" "	"
.60	.40	.20	66.60	.57	" "	"
2.02	.68	1.34	33.60	1.19	" "	"
2.27	1.42	.85	62 50	2.38	" "	"
3.05	.83	2.22	27.20	1.48	" "	"

†Boring seam not determined.

ANNUAL REPORTS

OF THE SEVERAL

State Inspectors of Coal Mines

FIRST INSPECTION DISTRICT—1901.

Counties: Grundy, Kankakee, LaSalle, Livingston, Will.

HECTOR MCALLISTER, *Inspector*, Streator.

HON. DAVID ROSS, *Secretary*,
State Bureau of Labor Statistics, Springfield, Illinois.

SIR:—In compliance with section 12 of the mining law, defining the duties of inspectors of mines, I herewith submit the eighteenth annual report of the coal mines in the First Inspection District, for the year ended June 30, 1901. This district includes the coal-producing counties of Grundy, Kankakee, LaSalle, Livingston and Will.

The report presents tabulated statements showing the number of mines in operation, both shipping and local; the depth of coal below the surface; the geological number and thickness of the various seams; the number of new and abandoned mines; the total number of persons employed at each mine; the number of tons of lump and other grades of coal produced at the mines; the aggregate value of the total propuct; the number of kegs of powder used; the number of boilers at each mine; the casualties in and around the mines, both fatal and non-fatal; the number of wives made widows and children left fatherless, caused by fatal accidents, and the number of days of active operation of all mines in the district.

The following is a summary of the tabular statements for all the counties in the district:

Total number of mines	80
Number of shipping mines	39
Number of Local mines	41
Number of new mines	12
Number of abandoned mines	16
Number of miners	5,888
Number of other employes	1,984
Total number of employes	7,872
Number of fatal accidents	11
Number of non-fatal accidents	76
Number of wives made widows	5
Number of children left fatherless	18
Total tons of coal produced	3,568,198
Tons of lump	2,384,343
Tons of mine run	242,795
Tons of egg	45,870
Tons of nut	100,331
Tons of pea or screenings	734,938
Tons of slack or waste	59,921
Average value per ton of lump at the mine	$1.352
Average value per ton of mine run at the mine	$1.333
Average value per ton of egg at the mine	$1.42
Average value per ton of nut at the mine	$0.896

Average value per ton of screenings at the mine	$0.424
Average value per ton of slack at the mine	$0.25
Aggregate value of total product	$4,014,342
Average price paid per gross ton for hand mining	$0.725
Average price paid per gross ton for machine mining	$0.51
Average number of days of active operation	222
Number of mines operated by hand mining	79
Mines using machines	1
Number of kegs of powder used	31,425
Number of boilers used at the mines	118
Tons of coal cut by machines	9,128
Number of machines in use	1
Number of tons of coal shipped	2,987,085
Tons supplied to locomotives at the mines	95,953
Tons sold to local trade	316,469
Tons consumed at the plant	168,691
Tons of coal mined to each fatal accident	324,382
Tons of coal mined to each non-fatal accident	46,818
Rate of fatal accidents for each 1,000 men employed	1.4

Coal production by counties in the First District, with increase or decrease in each, for the years ended June 30, 1900 and 1901:

Counties.	Total Output of all Grades of Coal in Tons.		Increase.	Decrease.
	1900.	1901.		
Grundy	1,299,863	1,293,092	.....	6,771
Kankakee	138,741	86,745	.....	51,996
LaSalle	2,027,864	1,833,561	.....	194,303
Livingston	184,649	294,824	110,175	.....
Will	50,932	59,976	9,044	.....
Total	3,702,049	3,568,198	119,219	253,070
Net decrease	.....	.....	.....	133,851

The counties of Livingston and Will show an increase of 119,219 tons, and the counties of Grundy, LaSalle and Kankakee show a decreas of 253,070 tons, leaving a decrease for the district of 133,851 tons, or 3.62 per cent from 1900.

New Mines—The Wilmington Coal Mining and Manufacturing Company, Diamond, Grundy county, has put in operation during the year, a new mine one mile south of its No. 4 mine, it is known as No. 5. This plant is first class in every particular, the hoisting engines are 14 x 30, first motion; steam is supplied by three new boilers, 60 inches by 26 feet long, a new fan has been erected, 7 x 14 feet; all the buildings are covered with corrugated iron, and are made as near fire proof as possible.

The Wilmington Star Mining Company, Coal City, Grundy county, has opened a new mine one mile west of Coal City, known as No. 6 mine. The shaft is 90 feet deep, thickness of coal 3 feet; this will be one of the best equipped mines in the county.

The Braceville Coal Company has opened a new mine, two miles north of Braceville, moving all the machinery from No. 4 to the No. 5 mine; it is now in full operation.

Nelson Bros. have opened a new mine near Morris, Grundy county.

J. H. Cryer has purchased the mine formerly operated by Harry Kay, near Morris, Grundy county; this is a new mine.

L. W. Brewer and William Saxly have opened a new mine near Ottawa, LaSalle county.

Reilly, Moffat & Co. have opened a new mine at Braidwood, Will county.

Mounts Bros. have opened a new mine at Streator, LaSalle county.

The Illinois Zinc Company, Peru, has opened a new mine near Deer Park, LaSalle county, and will consume all the output at the plant in Peru.

Harr Bros. have reopened the mine formerly operated by Castetter Bros., near Streator, LaSalle county.

The Streator Aqueduct Company has opened a new mine near its plant, two miles south of Streator, Livingston county; the company will consume all the coal at the plant.

Evans Bros. have opened a new mine near Streator, Livingston county.

Abandoned Mines. The following mines have been abandoned near Ottawa, LaSalle county: John Taylon; Nels Nelson; G. F. Myer; W. A. Brown and James Edson, all local mines.

The Star Coal Company, Streator, has abandoned its No. 3 mine at Kangley, LaSalle county.

William Howe & Co., have abandoned their mine at Streator, LaSalle county.

J. E. Buchanan & Bros., H. Worthington, and Nelson & Westerlund have abandoned their mines near Streator, LaSalle county.

Price & Jones, and Mounts Bros., have abandoned their mines near Streator, in Livingston county.

William Maltby and the Co-operative Coal Co., of Braidwood, Will county, have abandoned their mines.

The Star Coal Company has abandoned its No. 2 mine, at Carbon Hill, Grundy county.

Resumed Work. Matthiessen & Hegeler Zinc Company, LaSalle, has resumed work after being idle one year.

Mine Fires. A fire broke out in the boiler room of the William Maltby mine, near Braidwood, Sunday morning, April 14, 1901; the entire top works were destroyed. There was no one around the top at the time the fire was discovered, the engineer being down in the mine repairing a pump; some one saw the fire from a distance, and gave the alarm; the engineer made his escape through the air-shaft. Owing to the immense quantity of water accumulating in the mine, it has been abondoned.

Labor Troubles. April 1, 1900, the miners at the Standard Coal Company, Seneca, LaSalle county, came out on strike, demanding one dollar per ton; they were receiving up to that time 85 cents per ton. The scale at this mine was not included in the Illinois agreement, but the price of digging was to be determined by Herman Justi and W. R. Russell. However, the men would not accept of a compromise; after being idle about four months the company acceded to the demands of the miners.

Improvements. The most substantial improvements made during the year in this district are those now being made at the Acme Coal Company's mine, at Streator, LaSalle county. This company has, during the year, reconstructed the entire top works at this mine, elevating and remodeling the

tower, putting in a Howe Coal washing plant, with a capacity of 400 tons daily; a Howe track scale of 80 tons capability, also a shaker screen to accommodate both railroad and wagon trade.

The Oglesby Coal Company, Oglesby, LaSalle county, has put in two new tubular boilers, and a Harrison conveyer to carry the coal to the boiler house.

The LaSalle county Carbon Coal Co., LaSalle, has put in a shaker screen at its No. 1. mine.

The Chicago, Wilmington & Vermilion Coal Co., has put in a coal washing plant at its No. 1 mine at South Wilmington, Grundy county.

Prospective Mines—The Chicago, Wilmington & Vermilion Coal Co., of Streator, are sinking two new shafts at South Wilmington, a half mile east of its No. I mine in Grundy county. This company is also sinking a shaft to No. 2 seam, at Heenanville, six miles north of Streator, in LaSalle county.

The Wilmington Coal Mining & Manufacturing Company has sunk a prospecting shaft one mile east of Braceville; the coal was found at the depth of 91 feet; thickness of coal three feet; the company has purchased 640 acres of coal land at this place, and will sink two new shafts in the near future.

Corcoran Bros., of Morris, Grundy county, have sunk a shaft one mile east of Morris; the shaft is 30 feet to the top of the coal, the coal is 2 feet 9 inches thick; it will be opened out on the long wall system.

Fatal Accidents—July 27, 1900, Conrad Zeppner, miner, aged 45 years, was instantly killed by a fall of coal at the face of his working room in the LaSalle County Carbon Coal Co's. No. 1 mine, LaSalle county. Deceased was undermining at the time and had mined, to break in the coal, about four feet deep; when the coal came over the sprags, crushing him under it. He leaves a widow and two children.

September 22, 1900, Frank Keenan, miner, single, aged 25 years, was instantiy killed by a fall of slate in No. 2 mine of the Star Coal Company, Kangley, LaSalle county. Deceased and his partner were working nights, taking off coal to make a double parting; they had fired two blasts, and on returning to the place sounded the roof and found it bad; they at once set two props under the slate, but unfortunately placed them under the thin or light end, there being a cutter or slip running parallel with the rib. Shortly after they commenced loading the car the roof gave way, and the mass fell on Keenan, with the above result.

November 2, 1900, Louis Olson, miner, aged 36 years, married, was injured by a fall of rock at the face of his room in No. 5 mine of the Braceville Coal Company, Grundy county. Deceased was taking down coal at the time,when a piece of rock fell from the roof, striking him on the head and back; he lingered until March 1, 1901, when he died from the effects of his injuries. He leaves a widow and three children, all dependent.

January 8, 1901, John Roberts, timberman, married, aged 40 years, was instantly killed by a fall of rock in No. 5 mine of the Wilmington Coal Mining and Manufacturing Company, Grundy county. This is a new mine; the men were employed taking up bottom and timbering the byways around the bottom of the shaft; they had drilled a bottom whole which was collecting a considerable quantity of water. Deceased went to where they were con-

structing the mule stable to get a blasting barrel; just as he entered a great mass of rock fell, crushing him under it. This was his first day working in this mine. He leaves a widow and two children.

January 22, 1901, Richard Wedlock, miner, aged 50 years, single, was instantly killed by a fall of rock at the face of his room, in Mrs. E. Hake's mine at Rutland, LaSalle county. Deceased was shoveling coal out of the left hand side of his room when a rock which was relieved by a slip in the roof, running at right angles with the face of the coal between two breaks, fell on him causing his death. His room was insufficiently proped, although there were plenty of props at hand.

January 27, 1901, Samuel Fulton, track layer, aged 35 years, married, was instantly killed by an explosion of gas in No. 6 mine of the Wilmington Star Mining Company, Coal City, Grundy county. Deceased, with four other men, went to work on Sunday morning putting in air boxes to convey the air current to the face of the workings. This is a new mine and was ventilated by a small fan at the bottom of the hoisting shaft; the large fan at the air shaft had not been placed in position. It appears from the evidence that the fan was stopped about four o'clock Saturday evening, and was not started again until after the men descended into the shaft Sunday morning. After the fan had been running about ten minutes the mine manager ordered Fulton and Paul Smith to go to the west side to lay a switch; they loaded the ties and rails into a car and started from the bottom; when about 125 feet from the bottom they encountered fire-damp, which ignited from their open lights. Fulton was instantly killed by the explosion, and Smith was severely burned about the arms and face, but will recover.

Smith testified that the mine had not been examined that morning, although the mine manager and mine examiner went down with the men, and knew that that section of the mine was generating gas. Deceased leaves a widow and five children, all dependent.

February 5, 1901, Isaac Fawcett, miner, aged 28 years, single, was instantly killed by a fall of rock in the straight north entry, in No. 1 mine of the Star Coal Company, Carbon Hill, Grundy county. Deceased had been brushing his roadway, and had just commenced to put in a building on the right hand side, when without warning, a large rock fell from the roof, crushing his head, with the above result.

February 11, 1901, John Laherty, miner, aged 28 years, single, was instantly killed at the face of his working room in William Wood's mine near Morris, Grundy county. Deceased was working alone at the time and was wedging down coal, when a mass of rock fell on him with the above result.

February 12, 1901, Andrew Bedner, miner, aged 55 years, married, was instantly killed by a fall of coal in No. 12 room, fourth right entry, in No. 2 mine of the Star Coal Company, Kangley, LaSalle county. Deceased had fired a shot the night before which did not bring down the coal, he then commenced undermining, when the coal suddenly gave way, falling on him with the above result.

March 25, 1901, Ambrodjio Salvitto, miner, aged 27 years, single, was killed by a fall of rock at the face of his room in No. 1 mine of the Star Coal

Company, Carbon Hill, Grundy county. Deceased was opening up his place on the left hand side, which had been closed for several days; he was throwing out coal, when a large rock suddenly fell on him, causing his death. His place was insufficiently propped, the props being about six feet back from the face. There were plenty of props at hand.

March 29, 1901, Olliveri Luige, miner, aged 18 years, single, was instantly killed by falling down the shaft at Clark City, B mine of the Gardner-Wilmington Coal Company, Kankakee county. Linge and his partner were working nights, but on the above date work was suspended at 1:30 p. m. The two men intended to go to work at 2:15 the same day, and were waiting at the lower landing to go down, when a cage load of men came up, both got on the cage and gave one bell; the engineer, not knowing there was anyone on the cage, took it towards the top; Del. Monell, top man, seeing the cage going up, ran and gave the signal to the engineer to stop. Linge, seeing the cage going up instead of down, jumped off, falling down the shaft; had he remained on the cage with his partner he would have been safe.

The tables of casualties follow, also the statistical tables, by counties, giving in detail all information regarding the industry in the district.

Respectfully submitted,

HECTOR McALLISTER,

State Inspector of Mines, First District.

Fatal Casualties—First District—July 1, 1901.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widow.	Children.	Single.	Depend'nts	Cause of Accident.
1900										
July 27	Conrad Zeppner	45	Miner.	LaSalle.	1	1	2	..	..	Falling rock
Sept. 22	Frank Keenan	25	"	Kangley	..	..	..	1	..	"
Nov. 2	Louis Olson	36	"	Braceville	1	1	3	..	4	"
1901										
Jan. 8	John Roberts	40	Timber man	"	1	1	2	..	3	"
Jan. 22	Robert Wedlock	50	Miner	Rutland	..	..	..	1	..	"
Jan. 27	Samuel Fulton	35	Track layer	Coal City	1	1	5	..	6	Gas explosion
Feb. 5	Isaac Fawcett	28	Miner.	"	..	..	..	1	..	Falling rock
Feb. 11	John Laherty	28	"	Morris	..	..	..	1	..	"
Feb. 12	Andrew Bedner	55	"	Kangley	1	1	6	..	7	Falling coal
Mar. 25	Ambrodjio Salvitto	27	"	Carbon Hill	..	..	..	1	..	Falling rock
Mar. 29	Olliveri Luige	18	"	Clark City	..	..	..	1	..	Falling down shaft
	Total—11	..			5	5	18	6	20	

Recapitulation of Fatal Casualties—First District, 1901.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Braceville	2	Miners	9	Falling coal	1	Braceville Coal Co	1
Carbon Hill	1	Timber man	1	Falling rock	8	Gard'r Wilm. Coal Co.	1
Coal City	2	Track layer	1	Falling down shaft	1	Mrs. E. Hakes	1
Clark City	1			Gas explosion	1	LaSalle Co. C. C. Co	1
Kangley	2					Star Coal Co	4
LaSalle	1					Wil. Star Mining Co.	1
Morris	1					Wil. C. M. & Mfg. Co.	1
Rutland	1					William Wood	1
Totals	11		11		11		11

Non-Fatal Casualties—First District—July 1, 1901.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and cause of Injury.	Time lost—days.
1900									
July 2	John Dankovich..	37	Streator	1	....	4	....	Finger crushed by pit car.....	34
9	Levi Meyers.....	48	LaSalle.....	1	....	6	6	Ankle broken by falling coal..	135
10	Morgan Prosser..	52	Godley.....	1	....	3	4	Knee injured by falling rock..	35
13	Joseph Harris....	49	Braidwood .	1	....	5	6	Leg injured by falling rock...	32
23	Pat Christy....	48	"	....	1	....	....	Foot injured by falling rock..	82
28	John Sidlowski ..	35	S. W'lm'gt'n	1	....	....	1	Arm broken by falling coal....	35
Aug. 8	T. O. Kir	22	LaSalle	1	....	....	....	Foot injured by pit car	42
13	Geo. Hungell.....	55	Braidwood..	1	....	4	5	Arm broken by falling rock ..	42
18	Geo. Papach.....	37	Braceville ..	1	....	7	7	Foot injured in tippel.....	100
20	N. Bassmetta	35	Diamond ...	1	....	3	4	Foot injured by falling rock ..	40
23	Geo. Barlo.....	34	C.B.Junct'n	....	1	....	....	Leg injured by falling rock...	90
Sept. 4	A. Poherenly	50	Streator	1	....	2	2	Finger crushed by pit car.....	50
5	W. Brown.....	30	Diamond ...	....	1	....	....	Knee injured by falling coal..	40
6	John Sigment....	30	LaSalle	1	....	4	....	Leg broken by pit car	63
10	W. T. McAllister.	28	Streator	....	1	....	....	Thumb broken by pit car	55
10	Robert Jones.....	25	S. W'lm'gt'n	1	....	....	1	Hand injured by emery wheel	35
12	SamuelThomas..	31	Carbon Hill.	1	....	3	4	Back injured by falling rock..	*
12	B. Bailey	22	LaSalle	....	1	....	....	Leg broken by falling coal....	90
24	M. McDermott ...	50	Carbon Hill.	1	....	2	3	Leg broken by falling rock ...	150
27	B. Campo.....	53	Braidwood..	1	....	4	4	Hand injured by falling rock.	50
Oct. 4	Peter Pilkington.	47	Streator	1	....	....	1	Hands and face burned by an explosion of gas	35
4	Geo. Notman.....	33	"	1	....	3	3	Hands and face burned by an explosion of gas	45
6	Enock Incker	58	Braidwood .	1	....	2	3	Side injured by a fall of rock .	42
24	John Mathis.....	48	Streator	1	....	8	8	Shoulder blade broken by a fall of coal.....	72
Nov. 7	B. Stevens	25	S. W'lm'gt'n	1	....	....	1	Head cut by falling rock.....	49
19	D. Gracouna.....	47	Diamond ...	1	....	4	4	Back injured by falling coal..	40
21	Abe Duffey.....	23	Pontiac	....	1	....	....	Face injured, kicked by mule.	35
21	John Kemell.....	48	Braceville ..	1	....	2	3	Foot injured by a fall of rock..	63
22	A. Caislantiure ..	40	S. W'lmg't'n	1	....	....	1	Arm and back bruised by a fall of rock.....	35
23	M. Tereso	36	Carbon Hill	1	....	2	2	Leg broken by falling coal....	70
Dec. 1	Jas. Smitz	57	LaSalle.....	....	1	....	....	Ankle injured by falling rock	100
7	M. Bach	22	S. W'lm'gt'n	....	1	....	....	Foot injured by falling rock..	56
7	Geo. Chevetero ..	30	Diamond ...	1	....	2	3	Hand injured by falling timb'r	35
14	John Maylin.....	35	LaSalle	1	....	4	....	Finger injured by falling coal	34
19	Barney Genta....	49	Godley.....	1	....	5	6	Leg broken by falling rock ...	*
20	John Haw	27	Streator	1	....	2	3	Hand injured by pit car.....	30
27	J. Vangamplai ...	40	S. W'lm'gt'n	1	....	....	....	Foot injured by falling rock..	35
31	Frank Kral. Jr ...	16	Braidwood..	....	1	....	....	Hand injured by falling rock.	42
1901									
Jan. 2	Anton Sincola....	35	S. W'lm'gt'n	....	1	....	....	Back injured by falling rock..	49
4	Ed Barrow	26	Braceville ..	1	....	3	4	Shoulder injured by falling rock.....	35
8	Thos. Quinn.....	45	LaSalle	1	....	....	....	Knee injured by falling coal..	*
8	J. Barnnsmott ...	30	"	....	1	....	....	Arm broken by falling coal ...	42
8	James Swain.....	39	"	1	....	5	5	Hand injured by falling rock .	30
8	Henry Stemple...	39	"	1	....	3	2	Finger injured by pit car.....	51
23	Anton Migner....	45	LaSalle	1	....	7	....	Foot injured by falling rock ..	36
27	Leopold Smith...	45	Coal City...	1	....	5	5	Face and hands burned by an explosion of gas.....	*
Feby 6	Gus Lingreu.....	44	Braceville..	1	....	2	3	Hand injured by falling rock.	35
12	Geo. Mehoko.....	38	S.Wilm'gt'n	....	1	....	....	Hand injured by falling rock.	91
14	John Gleason.....	24	LaSalle	....	1	....	....	Arm broken by railroad car...	*
16	Jas. Wilkinson...	24	S. W'lm'gt'n	....	1	....	....	Hand injured by falling rock.	42
21	William Baker...	24	LaSalle	1	....	....	1	Leg broken by pit car.....	114
22	Richard Dillin...	22	Braidwood..	....	1	....	....	Leg injured by pit car.....	77
22	Frank Dearin.....	30	LaSalle	1	....	2	2	Body injured by falling coal..	35
Mar. 3	George Capp.....	40	Rutland.....	1	....	....	....	Ankle broken by falling rock .	*
4	J. H. Williams...	37	S. W'lm'gt'n	1	....	....	1	Finger bruised by falling rock	45
8	Andrew Washko.	36	Streator	1	....	4	5	Collarbone broken by falling down shaft.....	40
9	E. Teril.....	33	C.B.Junct'n	....	1	....	....	Back injured by falling rock..	45
11	Mike Barta.....	45	Braidwood..	1	....	3	4	Leg injured by falling rock...	42
13	A. Pomatto.....	35	C.B. Junct'n	....	1	....	...	Hand injured by falling rock.	60
16	Lewis Lessic.....	40	S. W'lm'gt'n	1	....	....	1	Back injured by falling coal..	35
26	Geo. Reis.....	36	"	....	1	....	....	Hand injured by falling rock.	56

*Still idle.

Non-Fatal Casualties—First District—July 1, 1901—Concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. Persons Dependent.	Character and Cause of Injury.	Time Lost—Days.
Mar. 26	W. McGarvey....	55	Braidwood..	1	....	4	4	Arm injured by falling rock..	49
26	John Kmell.....	48	Braceville..	1	....	2	3	Hand injured by falling rock.	45
April 6	Jas. Barber, Sr...	51	Braidwood..	1	....	3	3	Collarbone broken by falling rock.....	42
22	Henry Morgan...	40	"	1	....	....	....	Finger bruised by falling rock	35
29	Gus Bickoff.....	45	S. W'lm'gt'n	1	....	1	2	Back injured by lifting coal..	35
May 10	Jno. Kapanowski.	35	Peru	1	....	1	1	Foot sprained by cage.....	30
10	Joe Novitzki.....	45	"	1	....	4	5	Body injured by cage.....	40
10	M. Gitz.....	35	"	....	1	....	....	Hip dislocated by cage.....	60
15	E. Barrow.....	26	Braceville..	1	....	3	4	Leg broken by falling rock....	*
22	E. Bulkeeni.....	26	Oglesby.....	....	1	....	....	Back injured by falling rock..	33
23	C. Matthews	34	C. Hill.....	1	....	2	3	Finger cut off by falling rock.	42
23	Fred Keating.....	47	Oglesby.....	1	....	5	....	Side and hip bruised by falling coal.....	30
June 6	William Rix.....	46	Braceville..	1	....	1	1	Leg broken by falling rock....	*
7	John Conavatto..	35	Diamond....	1	....	....	1	Shoulder injured by pit car...	30
22	Marion Kimes....	44	Coalville ...	1	....	7	8	Knee injured by falling rock.	40

* Still idle.

Recapitulation of Non-Fatal Casualties—First District—1901.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Braceville ...	7	Blacksmith,..	2	Emery wheel.....	1	A. M. Barackman...	1
Braidwood...	11	Drivers.....	11	Falling coal.....	14	Braceville Coal Co...	7
Carbon Hill..	4	Laborers	1	Falling rock.....	40	Big Four Coal Co....	7
Coal City.....	1	Miners	54	Falling timber.....	1	Cahill, James.....	3
C. B. Junct'n	3	Prop man.....	1	Falling down shaft	1	C. W. & V. Coal Co..	21
Coalville.....	1	Road men....	4	By cage.....	3	E. Hakes	1
Diamond.....	5	Top men.....	3	Gas explosion.....	3	LaSalle Co. C. C. Co.	12
Godley	2			Kicked by mule....	1	Murphy, Keenan & Co	1
LaSalle	12			Lifting car.....	1	Oglesby Coal Co.....	2
Oglesby.....	2			Pit car.....	10	Pontiac Coal Co.....	1
Pontiac.....	1			Railroad car.....	1	Star Coal Co.....	4
Peru	3					Streator Clay Mfg. Co	2
Rutland.....	1					Wilm. Star Min'g Co.	1
Streator	10					Wilm. C.M. & Mfg. Co	13
S. Wilmingt'n	13						
Total.....	76	.....	76	.....	76	.....	76

Total men injured	76
Not recovered July 1, 1901	8
Number recovered	68
Time lost by men recovered	3,489 days
Average time lost by men recovered	48.15 "

Table Showing the Nature of Injuries, Number of Persons Injured, Dependents, Time Lost, with Average and Percentage--First District, 1901.

Nature of Injuries.	Number.	Married.	Single.	Dependents.	Time Lost.		Per cent of injuries.
					Total days.	Average days.	
Arm broken	4	2	2	6	119	29.75	5.26
Arms injured	1	1	.....	4	49	49	1.31
Arm and back bruised	1	1	.....	1	35	35	1.32
Ankle injured	1	.....	1	.....	149	149	1.31
Ankles broken	2	2	.....	.....	135	67.5	2.63
Back injured	7	4	3	11	188	27	9.21
Body injured	2	2	.....	.....	75	37.5	2.63
Collar bone broken	2	2	.....	8	82	41	2.63
Face and hands bruised	1	1	.....	5	.....	.....	1.32
Foot sprained	1	1	.....	1	30	30	1.32
Foot injured	8	6	2	14	454	56.75	10.52
Finger injured	2	2	.....	2	85	42.5	2.63
Finger cut off	1	1	.....	3	32	42	1.32
Finger crushed	2	2	.....	2	84	42	2.63
Finger bruised	2	2	.....	1	80	40	2.63
Hand injured	12	7	5	22	551	46	15.79
Hand and face bruised	2	2	.....	4	80	40	2.63
Head cut	1	1	.....	1	49	49	1.32
Hip dislocated	1	.....	1	.....	60	60	1.32
Knee injured	4	3	1	12	115	28.75	5.26
Kicked in face by mule	1	.....	1	.....	35	35	1.32
Leg injured	4	2	2	10	241	60.25	5.26
Legs broken	8	7	1	17	487	60.9	10.52
Shoulder blade broken	1	1	.....	8	72	72	1.32
Shoulder injured	2	2	.....	5	65	32.5	2.64
Side injured	1	1	.....	3	42	42	1.32
Side and hip bruised	1	1	.....	.....	30	30	1.32
Thumb broken	1	.....	1	.....	55	55	1.31
Total	76	56	20	147	3,489	48.15	100.00

Grundy County—First District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons. Total.	Lump.	Other Grades.	Average value of lump coal at the mine.	Aggregate value of total product.
1	Braceville Coal Co., 5	Braceville	143,776	111,075	32,701	$1 45	$171,687
2	Wilmington Star Min. Co., 5	Coal City	79,368	57,717	21,651	1 20	81,145
3	Wilmington Star Min. Co., 6	"	17,136	6,186	10,950	1 20	15,534
4	Star Coal Co., 1	Crrbon Hill	94,822	60,560	34,262	1 19	93,586
5	" " 2	"	81,469	67,500	13,969	1 19	82,848
6	" " 3	"	112,718	89,728	22,990	1 19	111,107
7	" " 4	"	42,843	34,265	8,578	1 19	41,778
8	C., W. & V. Coal Co., 1	South Wilm.	220,729	161,787	58,942	1 20	229,178
9	Wil. C. M. & Mfg. Co., 4	Diamond	223,583	182,201	41,382	1 19	226,290
10	Wil. C. M. & Mfg. Co., 5	"	13,681	9,565	4,116	1 19	12,059
11	Big 4 Wilm. Coal Co., 2	Coal City	143,242	108,140	35,102	1 19	141,608
12	Big 4 Wilm. Coal Co., 3	"	97,460	71,874	25,586	1 19	95,760
13	J. T. Espley & Co	Morris	3,700	3,400	300	2 15	7,550
14	James Heather	"	2,753	2,200	553	2 25	5,337
15	Morris Carbon Coal Co	"	2,045	1,545	500	2 00	3,440
16	James Bell	"	1,762	1,362	400	2 25	3,385
17	William Wood	"	3,200	3,000	200	2 25	6,910
18	J. H. Cryer	"	1,550	1,400	150	2 25	3,270
19	Frank Gilbride	"	2,800	2,650	150	2 25	6,082
20	Fleming & Byrne	"	2,100	2,000	100	2 25	4,580
21	John Telfer	"	700	650	50	2 25	1,503
22	Nelson Bros	"	600	575	25	2 25	1,314
23	Tasdal & Anestad	"	1,055	1,023	32	2 25	2,327
	Totals		1,293,092	980,403	312,689		$1,348,557
	Averages					$1 24	

Mines in 1900, 24.
New mines, 3.
Abandoned mines, 4.
Mines in 1901, 23.

Kankakee Connty—First District—1901.

Number.	Name of Operator.	Postoffice Address of Mines.	Output—Tons. Total.	Lump.	Other grades.	Average value of lump coal at the mine.	Aggregate value of total product.
1	Gardner-Wilm. Coal Co., B.	Clark City	47,732	29,480	18,252	$1 42	$58,274
2	Gardner-Wilm. Coal Co., B.	"	39,013	27,727	11,286	1 83	62,581
	Totals		86,745	57,207	29,438		$120,855
	Averages					$1 61.9	

Mines in 1900, 2.
New mines, 1.
Abandoned mines, 1.
Mines in 1901, 2.

Grundy County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	2,213	5,433	283	143,776	.....	$0 81	....	193	33	9	30	265	1
.....	3,418	2,569	253	79,368	.....	81	.....	150	32	19	19	220	2
.....	.....	430	107	17,136	.....	81	.....	63	24	2	8	97	3
.....	56	4,323	270	94,822	.....	81	.....	177	21	5	10	213	4
.....	4,001	3,877	161	81,469	.....	81	.....	204	24	6	15	249	5
.....	122	6,445	264	112,718	.....	81	.....	177	23	9	11	220	6
.....	1,022	4,568	291	42,843	.....	81	.....	81	16	....	6	103	7
.....	5,130	8,895	201	220,729	.....	81	.....	375	55	3	25	458	8
.....	2,638	3,500	257	223,583	.....	81	.....	480	50	50	20	600	9
.....	.....	2,000	175	13,681	.....	81	.....	40	35	1	10	86	10
.....	3,442	7,964	240	143,242	.....	81	.....	304	68	4	18	394	11
.....	.....	3,406	260	97,460	.....	81	.....	171	28	3	14	219	12
.....	3,600	100	245	3,700	.....	1 30	.....	7	.....	....	2	9	13
.....	2,753	.....	270	2,753	.....	1 30	.....	9	.....	....	2	11	14
.....	2,045	.....	300	2,045	.....	1 30	.....	7	.....	....	1	8	15
.....	1,762	.....	225	1,762	.....	1 30	.....	4	.....	....	1	5	16
.....	3,200	.....	210	3,200	.....	1 30	.....	5	.....	....	1	6	17
.....	1,550	.....	240	1,550	.....	1 30	.....	4	.....	1	1	6	18
.....	2,800	.....	204	2,800	.....	1 30	.....	7	.....	....	1	8	19
.....	2,100	.....	220	2,100	.....	1 30	.....	8	.....	....	1	9	20
.....	700	.....	230	700	.....	1 30	.....	3	.....	....	....	3	21
.....	600	.....	175	600	.....	1 30	.....	4	.....	....	1	5	22
.....	1,055	.....	230	1,055	.....	1 30	.....	5	.....	....	1	6	23
.....	44,207	53,510	....	1,293,092	.....	.....	.....	2,481	409	112	198	3,200	
.....	.....	.....	232	.....	.....	$0 81.84	.....	.....	.....	....	....	.....	

Kankakee County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	91	4,526	197	47,732	.....	58	.....	58	46	3	8	115	1
.....	4,452	1,814	233	39,013	.....	81	.....	60	29	2	6	97	2
.....	4,543	6,340	....	.....	.....	.....	.....	118	75	5	14	212	
.....	....	.....	215	86,745	.....	0.6834	.....	.....	.....	....	....	.....	

LaSalle County—First District—1901.

Number.	Name of Operator.	Postoffice Address of Mines.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	James Cahill	Peru	79,000	68,000	11,000	$1 45	$105,600
2	La Salle Co. C. C. Co., No. 1	La Salle	151,308	110,798	40,510	1 62	221,433
3	" " La Salle	"	163,031	92,878	70,153	1 62	240,316
4	" " R'kwell	"	106,914	62,086	44,828	1 62	153,458
5	" " Union	"	153,655	125,172	28,483	1 62	223,286
6	C. W. & V. Coal Co., No. 1	Streator	298,790	136,303	162,487	1 02½	210,287
7	" " No. 2	"	275,400	175,833	99,567	1 02½	215,532
8	Star Coal Co., No. 2	"	143,562	92,070	51,492	1 01	110,962
9	Acme Coal Co., No. 1	"	117,224	77,792	39,432	1 42	126,761
10	William Howe & Co	"	44,880	28,396	16,484	1 74	59,614
11	Nelson & Westerlund	"	1,000	800	200	2 00	1,750
12	William Thomas & Co	"	3,241	2,741	500	1 75	4,497
13	J. E. Buchanan & Bros	"	1,000	832	168	1 75	1,532
14	Thos. Sowerby & Bros	"	2,750	1,734	1,016	1 65	3,420
15	H. Worthington & Co	"	1,100	1,000	100	2 00	2,040
16	Alloway & Stevie	"	1,100	800	300	1 75	1,680
17	Bamwell Bros	"	1,500	1,230	270	2 00	2,595
18	Emerson Hakes	Rutland	120,900	95,200	25,700	1 85	194,060
19	Oglesby Coal Co	Oglesby	117,843	72,694	45,149	1 55	163,976
20	Standard Coal Co	Seneca	5,272	3,024	2,248	2 08	9,283
21	Marseilles L. & W. P. Co	Marseilles	25,620	.....	25,620	.....	40,992
22	John McNeil	Langley	900	800	100	2 00	1,660
23	Wilsman Coal Co	Wilsman	3,060	3,000	60	1 75	5,299
24	Massey Bros	Leanore	700	500	200	2 00	1,150
25	James McCullough	Ottawa	3,065	3,000	65	1 75	5,299
26	Daniel Vazaine	"	200	175	25	1 75	325
27	F. M. Fishburn	"	300	260	40	1 75	485
28	John Delbridge	"	350	300	50	1 75	563
29	L. W. Brewer	"	500	440	60	1 75	833
30	Geo. F. Myer	"	125	110	15	1 75	204
31	James Edson	"	110	100	10	1 75	183
32	William Saxby	"	150	130	20	1 75	242
33	Harr Bros	Streator	2,000	1,660	340	1 75	3,109
34	Illinois Zinc Co	Peru	3,225	.....	3,225	.....	4,838
35	J. C. Dawson & Co	Deer Park	3,786	2,452	1,334	1 38	4,184
	Totals	.....	1,833,561	1,162,310	671,251	.....	$2,121,713
	Averages	.....	.....	.....	.....	$1 41	.....

Mines in 1900, 40.
New mines, 3.
Abandoned mines, 8.
Mines in 1901, 35.

LaSalle County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
19,332	32,168	1,000	270	79,000	.....	$0 76	.....	149	24	1	19	193	1
.....	1,480	6,818	276	151,308	.....	76	.....	270	50	18	33	371	2
34,592	20,861	10,233	272	163,031	.....	76	.....	240	41	13	27	321	3
.....	.....	.....	248	106,914	.....	76	.....	175	28	14	18	235	4
29,155	52,666	4,622	256	153,655	.....	76	.....	265	54	23	33	375	5
.....	.....	4,994	251	298,790	.....	58	.....	320	50	15	21	406	6
.....	6,446	8,826	242	275,400	.....	58	.....	327	83	18	23	451	7
.....	.....	7,223	239	143,562	.....	58	.....	203	31	8	11	253	8
.....	8,729	8,148	231	117,224	.....	58	.....	210	25	3	15	253	9
.....	31,210	422	209	44,880	.....	58	.....	59	12	2	9	82	10
.....	1,000	.....	200	1,000	.....	58	.....	4	.....	....	1	5	11
.....	3,241	.....	240	3,241	.....	65	.....	6	.....	....	1	7	12
.....	1,000	.....	222	1,000	.....	65	.....	4	.....	....	1	5	13
.....	2,235	.....	215	2,750	.....	62½	.....	6	2	....	2	10	14
.....	1,100	.....	220	1,100	.....	65	.....	3	.....	....	1	4	15
.....	1,100	.....	250	1,100	.....	58	.....	2	.....	....	....	2	16
.....	1,500	.....	230	1,500	.....	65	.....	3	.....	....	....	3	17
.....	5,155	2,520	271	120,900	.....	76	.....	186	53	9	19	267	18
.....	2,726	5,006	227	117,843	.....	76	.....	208	47	23	46	324	19
.....	2,452	.....	213	5,272	.....	1 00	.....	21	2	4	2	29	20
.....	.....	25,620	245	25,620	.....	1 00	.....	38	8	....	4	50	21
.....	900	.....	250	900	.....	65	.....	2	.....	....	....	2	22
.....	3,060	.....	219	3,060	.....	76	.....	5	.....	....	1	6	23
.....	700	.....	230	700	.....	1 00	.....	3	.....	....	....	3	24
.....	3,065	.....	250	3,065	.....	1 00	.....	6	.....	....	1	7	25
.....	200	.....	175	200	.....	1 00	.....	2	.....	....	....	2	26
.....	300	.....	225	300	.....	1 00	.....	2	.....	....	....	2	27
.....	350	.....	230	350	.....	1 00	.....	2	.....	....	....	2	28
.....	500	.....	235	500	.....	1 00	.....	4	.....	....	....	4	29
.....	125	.....	175	125	.....	1 00	.....	2	.....	....	....	2	30
.....	110	.....	160	110	.....	1 00	.....	2	.....	....	....	2	31
.....	150	.....	180	150	.....	1 00	.....	2	.....	....	....	2	32
.....	2,000	.....	190	2,000	.....	65	.....	4	.....	....	1	5	33
.....	.....	.....	198	3,225	.....	76	.....	21	.....	....	5	26	34
.....	.....	.....	225	3,786	.....	64	.....	10	.....	....	3	13	35
83,079	186,529	85,432	.....	1,833,561	.....	.....	.....	2,766	510	151	297	3,724	
.....	.....	.....	227.7	.....	.....	0.677	.....	.....	.....	....	....	.....	

Livingston County—First District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Cardiff Coal Co. No. 1	Cardiff	132,847	63,603	69,244	$1 40	$146,735
2	Pontiac Coal Co	Pontiac	56,892	21,315	35,577	1 50	73,929
3	Diamond Coal Co	"	7,417	3,881	3,536	1 70	9,611
4	Walton Bros	Fairbury	22,271	13,425	8,846	1 60	29,044
5	Coöperative Coal Co	"	12,097	5,466	6,631	2 00	15,942
6	A. M. Barackman	Streator	33,417	18,870	14,547	1 45	40,100
7	Streator Clay Mfg. Co	"	8,857	.....	8,857	.....	11,071
8	R. Evans, Jr., & Bro	"	1,100	900	200	1 75	1,695
9	W. B. Edwards	"	1,728	1,152	576	1 67	2,212
10	Benjamin Davis & Son	"	2,098	1,174	924	1 50	2,642
11	Price & Jones	"	2,800	1,800	1,000	1 75	3,900
12	Harry Wonders	"	2,000	1,700	300	1 75	3,185
13	Evan Bros	"	3,000	2,700	300	1 75	4,845
14	Munts Bros	"	6,220	4,975	1,245	1 75	9,204
15	Oscar Kines	"	1,440	950	490	1 60	1,814
16	Streator Aqueduct Co	"	640	.....	640	.....	960
	Totals		294,824	141,911	152,913	.....	$356,904
	Averages		.....	.....	.....	$1 50.6	.....

Mines in 1900, 15.
New mines, 1.
Abandoned mines, 0.
Mines in 1901, 16.

Will County—First District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	William Maltby, Maltby	Braidwood	6,316	4,737	1,579	$1 80	$ 9,316
2	Coöperative Coal Co., No. 1	"	4,500	3,500	1,000	2 50	9,750
3	Murphy, Keenan & Co., No. 1	"	47,603	33,118	14,485	1 26	45,313
4	Reilly, Moffat & Co., No. 1	"	1,557	1,157	400	1 50	1,935
	Totals		59,976	42,512	17,464	.....	66,314
	Averages		.....	.....	.....	$1 42.9	.....

Mines in 1900, 3.
New mines, 1.
Abandoned mines, 0.
Mines in 1901, 4.

Livingston County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	3,977	3,752	152	123,719	9,128	$0 58	$0.51	141	30	9	20	200	1
3,500	18,210	2,460	231	56,892	.....	64	.....	85	26	3	13	127	2
.....	7,417	.....	230	7,417	.....	64	.....	8	2	1	2	13	3
9,374	8,335	1,860	258	22,271	.....	58	.....	20	10	2	6	38	4
.....	9,297	2,800	220	12,097	.....	60	.....	12	5	1	4	22	5
.....	3,312	810	223	33,417	.....	58	.....	55	10	7	5	77	6
.....	.....	8,857	294	8,857	.....	.....	.....	11	2	....	2	15	7
.....	1,100	.....	130	1,100	.....	64	.....	4	.....	....	1	5	8
.....	960	.....	125	1,728	.....	58	.....	9	.....	....	1	10	9
.....	120	.....	290	2,098	.....	58	.....	5	1	....	1	7	10
.....	2,700	100	140	2,800	.....	60	.....	6	.....	....	1	7	11
.....	2,000	.....	190	2,000	.....	64	.....	4	.....	....	1	5	12
.....	3,000	.....	170	3,000	.....	64	.....	6	.....	....	1	7	13
.....	6,220	.....	300	6,220	.....	64	.....	8	.....	....	1	9	14
.....	436	.....	163	1,440	.....	58	.....	7	.....	....	1	8	15
.....	.....	640	114	640	.....	60	.....	3	.....	....	....	3	16
12,874	67,084	21,279	....	285,696	9,128	.....	.....	384	86	23	60	553	
.....	.....	.....	205	.....	.....	$0.59.77	$0.51	.....	.....	....	....	.....	

Will County, 1901—Concluded.

Disposition of Out put—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	2,247	670	180	6,316	.....	$0 81	.....	20	2	....	4	26	1
.....	4,500	.....	173	4,500	.....	1 00	.....	12	.....	....	2	14	2
.....	5,802	1,460	236	47,603	.....	81	.....	100	18	6	9	133	3
.....	1,557	.....	150	1,557	.....	81	.....	7	1	...	2	10	4
.....	14,106	2,130	....	59,976	.....	.....	.....	139	21	6	17	183	
.....	.....	.....	185	.....	.....	$0 82.43	.....	.....	.....	....	....	.....	

Recapitulation by Counties—

Counties.	Number of mines.	Number of shipping mines.	No. of mines in local trade.	Total Tons Produced.	Average Value Per Ton at the Mine.						Aggregate value of total product.	Employes.		
					Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Waste		Number of miners.	All other employés.	Total.
Grundy.....	23	12	11	1,293,092	$1.247	$1.062	$1.20	$0.79	$0.265	.....	$1,348,557	2,481	719	3,200
Kankakee....	2	2	...	86,745	1.619	1.336	.....	1.14	0.739	$0.25	120,855	118	94	212
LaSalle.....	35	16	19	1,883,561	1.41	1.486	1.63	0.822	0.463	.....	2,121,713	2,766	958	3,724
Livingston..	16	7	9	294,824	1.506	1.218	1.334	1.188	0.604	0.25	356,904	384	169	553
Will.....	4	3	1	59,976	1.429	1.03	.....	.....	0.345	.....	66,313	139	44	183
Totals	80	40	40	3,568,198	.....	.....	.....	.....	.....	.....	$4,014,342	5,888	1,984	7,872
Averages..	...	..	...	.....	$1.352	$1.333	$1.42	$0.896	$0.424	$0.25	.....	.....	.....	.....

Whole number of mines reported in 1900, 84.
Number of new mines opened during the year, 9.
Number of mines exhausted or abandoned during the year, 13.
Whole number of mines reported for 1901, 80.

First District—1901.

Disposition of Output—Tons.				Average No. of days in operation.	How Mined—Tons.		Prices Paid Per Ton For		Number of kegs of powder used for blasting coal.	Steam Boilers	
Loaded on cars for shipment.	Supplied to locomotives at mines.	Sold to local trade.	Consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.		No. of mines using.	Number in use.
1,195,375	.....	44,207	53,510	232	1,293,092	.....	$0.8184	.....	9,284	16	38
75,862	.....	4,543	6,340	215	86,745	.....	0.6834	.....	2,468	1	4
1,478,521	83,079	186,529	85,432	227.7	1,833,561	.....	0.677	.....	10,925	16	46
193,587	12,874	67,084	21,279	205	*285,696	9,128	0.5977	$0.51	8,748	11	24
43,740	.....	14,106	2,130	185	59,976	.....	0.8243	.....	.....	4	6
2,987,085	95,953	316,469	168,691	.....	3,559,070	9,128	.....	.....	31,425	48	118
.....	.....	.....	.....	222	.....	.....	$0.725	$0.51	.....	....	....

*8,857 tons mined by hand and paid for by the day.

SECOND INSPECTION DISTRICT—1901.

Counties—Bureau, Henry, Knox, Marshall, Mercer, Rock Island, Stark, and Warren.

THOMAS HUDSON, *Inspector*, Galva.

HONORABLE DAVID ROSS, *Secretary*,
State Bureau of Labor Statistics, Springfield, Ill.

SIR:—In compliance with section 12 of an act of the General Assembly of Illinois, defining the duties of State inspectors of coal mines, and providing for the preservation of the health and safety of persons employed in the mines of the State, I have the honor to herewith submit to you the eighteenth annual report of the coal mines contained in the second inspection district, including the coal producing counties of Bureau, Henry, Knox, Marshall, Mercer, Rock Island, Stark, and Warren, for the year ended June 30, 1901.

The tabular part of the report contains the number of mines in the district, shipping and local; the depth below the surface of the different shafts; the geological number and thickness of the various seams; the number of miners and other employés engaged in the mining industry in the district; the number of days each mine has been in operation during the year; the amount of powder consumed; the number of fatal and non-fatal accidents that have occurred during the year, with the causes thereof; the number of tons of lump and other grades of coal produced; the prices per ton paid for mining, with the average value of lump and other grades of coal per ton at the mine; the disposition of the product of the mines is also set forth, whether shipped, sold to local consumers, or used for steam purposes at the mines; the aggregate value of the total product is also given; in fact, the tables contain about everything that is of importance to those directly interested, or of interest to the statistician.

The following summary is presented for the year ended June 30, 1901:

Total number of mines	187
Number of shipping mines	26
Number of mines in local trade	161
Number of miners	4,668
Number of others underground, including boys	1,091
Number employed above ground	547
Total number of employés	6,306
Number of kegs of powder consumed for blasting coal	34,484
Tons of lump coal produced	1,932,918
Tons of all other grades produced	837,495
Total product in tons	2,770,413

Tons of coal shipped	2,298,793
Tons sold to local trade	322,077
Tons consumed at the mines	94,569
Tons supplied to locomotives at mines	54,974
Average value of lump coal per ton, at the mine	$1.51
Aggregate value of the total product	$3,628,527
Average number of days of active operation	166
Average price per gross ton for hand mining	$0.72
Number of fatal accidents	10
Number of non-fatal accidents	55
Ttal number of accidents	65
Number of employés to each fatal accident	631
Number of employés to each non-fatal accident	115
Tons of coal produced to each fatal accident	277,041
Tons of coal produced to each non-fatal accident	50,371
Tons of coal produced to each miner employed	591
Tons of coal produced to each employé, all classes	439
Number of steam boilers in use at mines, horizontal	144
Number of steam boilers in use at mines, upright	6
Rate of fatal accidents per 1,000 persons employed	1.58

Comparative table, showing the output of the different counties, with loss or gain in each, for the years ended June 30, 1900 and 1901:

Counties.	Total product of all grades of coal—in tons.		Increase.	Decrease.
	1900.	1901.		
Bureau	1,338,231	1,549,056	210,825	.....
Henry	105,589	83,535	.....	22,054
Knox	54,139	78,362	24,223	.....
Marshall	369,148	386,334	17,186	.....
Mercer	501,065	563,603	62,538	.....
Rock Island	45,191	63,399	18,208	.....
Stark	24,911	26,524	1,613	.....
Warren	15,089	19,600	4,511	.....
Totals	2,453,363	2,770,413	339,104	22,054
Increase, tons	.....	.....	.....	339,104
Decrease, tons	.....	.....	.....	22,054
Net increase tons	.....	.....	.....	317,050

The counties of Bureau, Knox, Marshall, Mercer, Rock Island, Stark and Warren combined, show a gain over the year previous of 339,104 tons, and Henry county a loss of 22,054 tons. leaving a net gain for the district of 317,050 tons.

New Mines—Three mines of the shipping class have been put into operation during the year. Mine No. 2, operated by T. S. Silvis, near Carbon Cliff, Rock Island county. The coal produced at this mine is shipped over the Davenport, Rock Island and Northwestern railroad. This road has been built quite recently from Rock island to the northern border of Rock river, where Silvis' mine is located. which is the terminal of the road. It is now controlled by the Burlington management.

Mine No. 2, operated by the Etherly Coal Co., at Etherly, Knox county, went into operation as a shipping mine during the year. The principal mine opened during the year, however, is shaft No. 5, operated by the Spring Valley Coal Co., at Spring Valley, Bureau county. A description of this mine and its equipment was given in the annual report for 1900. It will, in all probability, be heard of as a liberal coal producer in the future.

The Kewanee Coal and Mining Company, Kewanee, Henry county, sunk a shaft during the autumn of 1900, and operated it as a local mine until July, 1901. A branch road is now being constructed from the side tracks of the C. B. & Q. R. R. In future it will be operated as a shipping mine.

Mines Abandoned—Two mines of the shipping class have been abandoned during the year. Shaft No. 1, operated by the Empire Coal Co. at Gilchrist, Mercer county, has been worked out, and was abandoned in October, 1900.

The mine heretofore operated by John McCaffrey, at Blossomburg, Henry county, was abandoned in October, 1900, temporarily and possibly permanently.

Many small local mines are opened and others abandoned each year, a record of which is assumed to be unnecessary in a report of this kind.

Scales Tested—Two applications only have been made to have scales tested during the year. July 18, 1900, the scale at No. 3 mine, operated by the Spring Valley Coal Co. was tested and found correct. This is a beam scale. On the same date, at mine No. 1, operated by the same company, the scale was tested and found correct up to and including 3,000 pounds, at which point it began to lose slightly; at 4,000 pounds it was 25 pounds light or against the miner. The officials of the company were requested to have the scale corrected at once, and it was done. This scale has a dial attachmeut.

The probable cause for so few applications being made to have scales tested is that an effort has been made, and with some success, to have the larger operators to provide test weights at their mines, these weights, where provided, would be constantly on hand and the scale could be tested by the weighman and check-weighman as often as might be deemed necessary.

Shaft Towers Destroyed by Fire—On the night of August 29, 1900, the tower, scale house and large nut coal bins at the Devlin Coal Co.'s shaft No. 1, at Toluca, Marshall county, were totally destroyed by fire. The enginehouse, boilerroom and ventilating fan and fanhouse were saved. The cause of the fire is not known; it was supposed by some to be the result of spontaneous combustion in the nut coal bins, as the fire when first discovered seemed to have stated in that direction. The fact, however, that these bins were being filled and emptied at short intervals, would seem to dispel the logic of that supposition. The top of the down-cast shaft was destroyed by the fire, but by persistent work the damage was repaired in two days, the ventilation again established and coal hoisted through the No. 2 shaft. A temporary tower was erected at No. 1 shaft, and in about two weeks after the fire the mine was again in full operation.

The shaft buildings at the local mines of J. M. Robinson, located near Elmira, Stark county, and James Kay, near Atkinson, Henry county, were also destroyed by fire during the year.

Injunctions Granted—July 21, 1900, an application was made to the Master in Chancery at Toulon, Stark county, for temporary injunctions to restrain Wm. M. Jones and B. F. Newton, from operating their local mines, located near Bradford, Stark county, until section 3 of the mining law in regard to escapement shafts had been complied with. The master granted the temporary injunctions applied for and the judge affirmed his action at the September term of court. Newton closed down his mine and went out of business, his mine not being a profitable one. Jones sunk an escapement shaft 112 feet deep.

Escapement Shafts—The following escapement shafts, with their respective depth, in feet, have been sunk during the year:

Name of Operator.	Location of Mine.	Depth in Feet.
W. W. Jones	Bradford	112
John Todd	Victoria	40
Spring Valey Coal Company No. 5	Spring Valley	412
James H. Murray	Galva	45
Kewanee Coal and Mining Company	Kewanee	102
Liliman & Company	Cable	30
B. B. Peterson	Cable	35
Rodell & Mitchell	Wataga	48
Frank Reinhold	Wataga	16
George Clifford	Oneida	30
Isam Dalton	Yates City	30
John Selkirk	Monmouth	55
Alex. Morrison	Modena	45
Sackville Brothers	Coal Valley	42
Kenneth Murchison	Kewanee	10
Otto Isaacson	Wataga	40
Tompkins Brothers	Mineral	15
U S. Clay Manufacturing Company	Griffin	49
Wm. Penman	Preemption	40
Peter Docherty	Preemption	20
Joseph Williams	Preemption	20

In addition to the above, the Alden Coal Co., at Wanlock, has sunk an auxiliary air shaft, 136 feet deep, at the face of the workings, about one mile south, and one-quarter of a mile west of the main shaft. The long aircourses, and general condition of the ventilation, had made this improvement very necessary.

Detaching Hooks—On the morning of Nov. 3, 1900, there occurred at No. 3 shaft, operated by the Spring Valley Coal Co., Spring Valley, an incident, which, but for the perfect action of the detaching hooks in use, would certainly have resulted in serious loss of life. The company men, seven or eight in number, including Owen White, the mine examiner, working on the night shift, came to the bottom of the shaft on the above date to be hoisted out of the mine. They gave and received the usual signals, and the engineer proceeded to hoist them up the shaft. When the cage was just about coming to a stop at the ground landing, it suddenly shot upwards to the sheave wheels, became detached from the winding rope, and was left safely suspended with its living load, in perfect accordance with the design of the detaching hook. Before the engine could be stopped it had carried the winding rope and heavy socket many times around the rapidly revolving drum, causing a complete wreck in the engine room. The night engineer was operating the winding engine at the time of the accident, and the day

engineer was in the engine room with him, but neither could explain just how it happened. There seems to be only one reasonable solution; the engineer forgot himself, instead of shutting off steam, which he intended to do at the time, he in all probability threw the throttle valve wide open, and what followed was quite natural. These detaching hooks are in use in all the Spring Valley mines; they are manufactured by Stephen Humble, London, England.

Fatal Accidents—The following is a detailed statement of the fatal accidents that have taken place in the second district during the year ended June 30, 1901:

Aug. 11, 1900, Sylvester Masserdelli, miner, aged 42 years, married, leaves a family in Italy, was found dead at the face of his working room in the Devlin Coal Company's shaft No. 2, (middle seam) at Toluca, Marshall county. Deceased was working alone in a room driven in about 45 feet from the entry, he had fired a blast a little after 3:00 o'clock p. m., quitting time; he came to the end of his room on the entry, put on his clothes and made every preparation apparently for going home; but, being a little anxious to know what his shot had done, he went back to the face of the room and was evidently overcome by the powder smoke and could not get back again. He was missed at his boarding house, and a searching party organized. He was found at the face of the room dead, about 5:00 o'clock, nearly two hours after he fired the blast. It became quite generally known after the inquest that he was subject to heart trouble, and it is very probable that this was the prime factor that caused his death.

Sept. 20, 1900, Morris Stoehr, a sinker, aged 23 years, single, was killed almost instantly by falling down the new sinking shaft, at Silvis' mine, located near Carbon Cliff, Rock Island county. Deceased and his partner were engaged in sinking a new staft at the above mine; they were about to fire a blast; deceased came up the shaft in a sinking bucket, leaving his partner below to ignite the fuse. When Stoehr reached the top of the shaft he went to step from the bucket onto the platform while the bucket was yet in motion, the boards of the platform were wet and slippery, and his foot slipped in such a manner that he fell into and down the shaft, a distance of 80 feet. He died about ten minutes after being brought to the surface.

Oct. 10, 1900, Anton Uranchick, driver, aged 28 years, married, leaves a widow and one child in Austria, was killed instantly by a fall of roof on the 16th south entry, in the Wenona Coal company's mine, Wenona, Marshall county. Deceased was hauling a loaded pit car through a part of the entry where a new parting or side track was being built, when a large mass of roof that would weigh about three tons suddenly fell, crushing him under it. The rock that fell was supported by a prop, but it was supposed that the rock cut loose on the fastened side, and swung the prop just at the time that he was passing under it.

November 23, 1900, Daniel Sturm, minor, aged 48 years, married, leaves a widow and four minor children, was killed instantly by a fall of roof at the face of his working place in William Rennick's local mine, located near

Modena, Stark county. Deceased was working with his son, they had fired a blast and went outside to the top of the shaft to rest and wait until the powder smoke had cleared away. After staying there about 30 minutes they returned to their working place in the mine. The blast they had fired had evidently been drilled too high, and, as a natural consequence, had shaken and loosened the roof; they had been working but a short time when a large mass of roof that would weigh about a ton, suddenly fell, crushing the head and body of deceased, killing him instantly.

November 28, 1900, Wilber McIntosh, top laborer, aged 18 years, single, was injured in the spine by falling from a trestle or bridge, that extends from the top of the shaft to the local coal chute, at the Whitebreast Fuel Company's shaft "B", Ladd, Bureau county. He died from the injuries December 2, four days after the accident. Deceased, with his father, was employed at the above shaft as topman on the night shift. A car of coal was sent up the shaft, deceased took it to the local chute, where the local coal is sold, passing over the trestle, which is about 12 feet wide and 80 feet long. He had dumped the car of coal and was returning to the tower proper, when he fell from the trestle. The distance of the fall was a little less than 18 feet. This accident, under ordinary circumstances, should not have had a fatal termination, but in falling he seems to have turned half over, and struck the ground on the back part of the head and shoulders, injuring the spine severely enough to cause death.

December 19, 1900, John E. Olson, miner, aged 28 years, single, was killed instantly by a fall of roof at the face of his working room, in the Coal Valley Mining Company's shaft No. 2, Sherrard, Mercer county. Deceased and his partner both knew that the rock, which eventually fell, was dangerous, as they had been trying to wedge it down, but thinking the danger not immediate, deceased went under it to mine out a shot, when it suddenly fell, crushing his breast. The false rock or clod that fell was about 11 feet long, two and one-half feet wide at the widest part, tapering nearly to a point at each end, with an average thickness of about six inches, and would weigh about one ton.

January 18, 1901, Robert Murphy, miner, aged 25 years, single, was severely injured by being struck on the head with loose coal flying from a blast, in the Alden Coal Company's mine No. 2, located at Wanlock, Mercer county, and died from the injuries received 11 hours after the accident. Deceased was opening a room on the 11th west entry in the above mine, the room was driven in about 15 feet from the entry; he had fired one blast and went into the room to fire a second; the supposition is, that the squib was defective, as the blast exploded before he could reach a place of safety only 15 feet away; the coal flying from the blast struck him on the back of the head and shoulders, with above result.

February 6, 1901, Frank Gooden, miner, aged 30 years, married, leaves a widow and two children, was killed instantly by being struck on the head with coal flying from a blast in the Alden Coal company's mine No. 2, Wanlock, Mercer county. Deceased had prepared three blasts, two in an entry and one in a room that he was commencing to open off the entry; he had

ignited the two shots in the entry, and his partner was trying to do the same with the blast behind him where the room was being opened; his partner failed to light the fuse, and Gooden, in passing out from the entry shots, stopped to assist, but had not time to be certain that the fuse was lighted before they had to go to a place of safety, as a squib shot in the entry was likely to go off. They went to the room outside, when the two entry shots exploded, but the other did not explode. After waiting a short time, too short, they thought the fuse had not been lighted, deceased went back to light it, when about six feet from the shot the blast exploded, and coal flying therefrom struck Gooden on the head, crushing it in a fearful manner, with the result as stated.

February 18, 1901, Frank McMahon, miner, aged 54 years, married, leaves a widow and two minor children, was severely burned on arms and face with powder, and his body bruised by coal flying from a premature blast in the Empire Coal Company's mine No. 3, Gilchrist, Mercer county. He died from the injuries three hours after the accident. Deceased was working in a room, assisted by his son, 15 years of age; he was in the act of charging a hole with loose powder, and probably pushing the powder back with an iron scraper; in doing so the scraper must have come in contact with pyrites of iron, sulphur in the drill hole, generating a spark which ignited the powder, causing it to explode, with the above results. About half a ton of coal was thrown off by the explosion. The son was quite severely injured by the same explosion.

April 18, 1901, Geovani Ludorico, miner, aged 48 years, married, leaves a widow and four children in Italy, was severely crushed about the head and body by a fall of roof at the face of his working room in shaft No 1, operated by the Spring Valley Coal Company, Spring Valley, Bureau county. He died from the effects thereof before he could be removed from the mine. Deceased was in the act of brushing his working place when a mass of roof, about three feet long, 18 inches wide, with an average thickness of about 10 inches, suddenly fell, striking him on the head and body with above results. Coroners' inquests were held after and in connection with each of the above fatal casualties, and the usual verdict of accidental death returned in each case.

The regular tables of fatal and non-fatal accidents, and the county schedules for the Second District follow:

Respectfully submitted,

THOMAS HUDSON,
State Inspector of Mines, Second District

Galva, Ill.

Fatal Casualties—Second District—July 1, 1901.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widow.	Children.	Single.	Depend'nts	Cause of Accident.
1900										
Aug. 11	Sylvester Masserdelli.	42	Miner	Toluca	1	1	7	..	8	Powder smoke
Sep. 20	Morris Stoehr	23	Sinker	Carbon Cliff	..	..	..	1	..	Fall'g down sink.shft
Oct. 10	Anton Uranchich	28	Driver	Wenona	1	1	1	..	2	Falling roof
Nov. 23	Daniel Sturm	48	Miner	Modena	1	1	4	..	5	" "
Nov. 28	Wilbur McIntosh	18	Laborer	Ladd	..	..	..	1	..	Fell from trestle
Dec. 19	John E. Olson	28	Miner	Sherrard	..	..	..	1	..	Falling roof
1901										
Jan. 18	Robert Murphy	25	"	Wanlock	..	..	..	1	..	Flying coal
Feb. 6	Frank Gooden	30	"	"	1	1	2	..	3	" "
Feb. 18	Frank McMahon	54	"	Gilchrist	1	1	2	..	3	Premat. blast, fly'g c'l
Apr. 18	Geovani Ludorico	48	"	Spr'g Valley	1	1	4	..	5	Falling roof
	Total—10	..			6	6	20	4	26	

Recapitulation of Fatal Accidents—Second District—1901.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Carbon Cliff	1	Driver	1	Flying coal	3	Alden Coal Co	2
Gilchrist	1	Surf. laborer	1	Falling roof	4	Coal Valley Min'g Co	1
Ladd	1	Miners	7	Fall'g d'n sink.sh'ft	1	Devlin Coal Co	1
Modena	1	Sinker	1	Falling from trestle	1	Empire Coal Co	1
Sherrard	1			Powder smoke	1	Rennick's*	1
Spr'g Valley	1					Silvis' Mine	1
Toluca	1					Spring Val. Coal Co.	1
Wanlock	2					Wenona Coal Co	1
Wenona	1					Whitebr'st Fuel Co. †	1
Totals	10		10		10		10

* Operated by Alex. Morrison.

† I. W. Fowler, receiver.

Non-Fatal Casualties—Second District—July 1, 1901.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and cause of injury	Time lost—Days.
1900									
July 2	Pat Riley	32	Toluca	1	....	1	2	Hand bruised, pit car	30
3	A. Lodder	30	Spr'g Vall'y	...	1	....	....	Leg broken, falling roof	60
22	John More	35	Wanlock	....	1	....	....	Finger cut off, coal falling down shaft	35
25	George Brachetti	35	Spr'g Vall'y	....	1	....	....	Foot crushed, falling of roof	57
30	William Bell	45	"	1	....	....	1	Foot crushed, falling rock	95
Aug. 14	William Currie	20	"	....	1	....	....	Leg broken, pit car	*
20	C. Burts	44	"	1	....	2	3	Head injured, falling roof	30
28	John Chiado	45	"	1	....	10	11	Head cut, cage—at bottom	48
Sep. 12	Ans. Q. Grosso	41	Ladd	1	....	1	2	Leg broken, falling roof	80
18	Mike Nadzen	35	Toluca	....	1	....	....	Leg injured, coal falling down shaft	60
20	Oliver Lugg	35	Sherrard	1	....	2	3	Finger cut off, falling roof	30
21	John Allison	38	Loding	1	....	5	6	Back injured, falling roof	*

Non-Fatal Casualties—Second District—July 1, 1901.—Concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent	Character and cause of injury	Time lost—Days.
1900									
Oct. 20	S. Sobaurs	26	Spr'g Vall'y	....	1	....	....	Leg broken, falling of coal	60
22	August Pelki	23	"	....	1	....	....	Body injured, falling roof	30
22	Dan Lacy	34	Wenona	....	1	....	....	Ankle broken, pit car	*
27	John Clint	55	Toluca	1	....	....	1	Leg broken, pit car	100
Nov. 1	A. C. Griffin	55	S. Moline	1	....	2	3	Shoulder disl't'd, fal'g derrick	60
10	John S. Johnson	32	Wanlock	....	1	....	....	Ankle injured, falling coal	60
16	S. Recardo	24	Spr'g Vall'y	....	1	....	....	Leg broken, falling coal	60
20	John Binot	32	"	....	1	....	....	Ankle bruised, falling coal	50
28	Jake Moler	27	"	....	1	....	....	Back injured, falling coal	30
Dec. 10	William Brast	60	Ladd	....	1	....	1	Leg injureg, falling coal	30
14	Fred Rice	24	Spr'g Vall'y	1	....	....	1	Leg broken, pit car	*
16	William Smith	44	Laoc	1	....	4	5	Leg broken, falling roof	105
19	August Wicker	38	Spr'g Vall'y	1	....	5	6	Ankle bruised, pit car	73
27	George Arbuckle	44	"	1	....	8	9	Ankle injured, pit car	119
1901									
Jan. 4	Fred Brumes	21	Toluca	....	1	....	....	Toe broken, by cage	60
14	Tim Knotts	39	Spr'g Vall'y	1	....	1	2	Leg broken, falling roof	110
18	F. Heitz	27	Depue	....	1	....	....	Head injured, pit car	90
18	James Vittone	35	Seatonville	....	1	3	3	Leg broken, falling coal	80
19	John Miller	39	Spr'g Vall'y	1	....	7	8	Thigh bruised, pit car	42
22	F. G. Childs	40	"	1	....	2	3	Leg broken, falling coal	62
24	Lacey Pero	15	"	....	1	....	....	Foot cut, pit car	40
24	Mike O'Hare	33	Toluca	....	1	....	....	Leg bruised, pit car	30
26	Thos. Moran	16	Seatonville	....	1	....	....	Body injured, falling roof	*
Feb. 5	Gus. Anderson	42	Spr'g Vall'y	....	1	....	....	Foot bruised, falling coal	61
8	August Brewer	24	Sheffield	1	....	1	2	Leg broken, falling roof	70
13	James King	36	"	1	....	5	6	Back injured, falling roof	50
18	Bern'd McMahon	15	Gilchrist	....	1	....	....	Body injured, premature blast	70
20	C. Hurley	48	Marquette	....	1	....	....	Head cut, falling coal	60
27	Babtiste Melano	25	Toluca	....	1	....	....	Thigh broken, falling coal	100
28	Dennis Connelly	28	Wenona	....	1	....	....	Leg broken, falling roof	*
Mar. 15	George Dixon	38	"	1	....	2	3	Toe broken, falling roof	40
Apr. 1	Jas. Arbuckle	22	Spr'g Vall'y	....	1	....	....	Foot injured, pit car	61
17	Mike Smith	40	Wenona	....	1	....	....	Leg injured, falling roof	30
18	Thos. Duley	38	"	1	....	....	1	Leg broken, premature blast	*
May 1	Peter Weits	65	Spr'g Vall'y	1	....	3	4	Foot injured, falling coal	60
6	Paul Skickis	28	Ladd	....	1	....	....	Collar bone broken, fall'g coal	35
8	David Jones	29	Wenona	1	....	....	1	Shoulder blade broken, pit car	45
15	Dominick Cresto	22	Spr'g Vall'y	....	1	....	....	Body injured, pit cars	*
16	John Williams	26	"	....	1	....	....	Back injured, pit cars	45
18	Henry Hunter	33	Sherrard	1	....	4	5	Shoulders injured, fall'g roof	30
June 4	Moses Roady	56	Toluca	1	....	3	4	Leg broken, falling coal	*
8	Joe Antintes	30	Spr'g Vall'y	....	1	....	....	Leg broken, falling roof	*
19	Peter Klinick	43	"	1	....	3	4	Head injured, falling coal	*
	Totals			26	29	74	100		2573

*Not recovered July 1 1901.

Total men injured	55
Not recovered July 1, 1901	11
Number recovered July 1, 1901	44
Time lost by men recovered	2,573 days
Average days lost by men recovered	58.48

Recapitulation of Non-Fatal Accidents—Second District—1901.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Depue	1	Cagers	2	Cage	2	Alden Coal Co.	2
Gilchrist	1	Coal operator.	1	Coal fall'g d'n sh'ft.	2	C. W. & V. Coal Co.	2
Ladd	3	Company men	4	Falling coal	15	Coal Valley Min'g Co	2
Laoc	1	Drivers.	10	Falling derrick	1	Devlin Coal Co.	7
Loding	1	Engineer	1	Falling roof	17	Empire Coal Co.	1
Marquette	1	Miners	34	Premature blast	2	Jamiesons&Allison's	1
Seatonville	2	Sinker	1	Pit cars	15	Marquette Coal Co.	7
Sheffield	2	Timber man	1	Rock falling from side sink'g shaft.	1	Sneffield Mining Co.	2
Sherrard	2	Trapper	1			Silvis Mine	1
S. Moline	1					Spr'ng Valley CoalCo	20
Spr'g Valley.	25					Wenona Coal Co.	6
Toluca	7					Whitebr'st Fuel Co.*	3
Wanlock.	2					Williams Mine	1
Wenona	6						
Totals.	55		55		55		55

* I. W. Fowler, receiver.

Table Showing the Nature of the Injuries, Number of Persons Injured, Dependents, Time Lost, with Averages and Percentages—Second District.

Nature of Injuries.	Number.	Married.	Single.	Dependents.	Time Lost.		Per cent of Injuries.
					Total days.	Average days.	
Ankles injured	5	2	3	15	302	75.5	9.10
Back injured	4	3	1	13	125	41.66	7.30
Body injured	4	.....	4	.....	100	50	7.30
Collar bone broken	1	.....	1	.....	35	35	1.80
Feet injured	5	2	3	5	334	66.8	9.00
Fingers cut off	2	1	1	3	65	32.5	3.64
Hand injured	1	.....	1	2	30	30	1.80
Head injured	5	3	2	18	228	57	9.10
Legs broken	17	10	6	24	827	75.2	31.00
Legs injured	4	.....	4	.....	150	37.5	7.28
Shoulder blade broken	1	1	.....	1	45	45	1.80
Shoulders injured	2	2	.....	8	90	45	3.64
Thigh broken	1	.....	1	.....	100	100	1.80
Thigh injured	1	1	.....	8	42	42	1.80
Toes broken	2	1	1	3	100	50	3.64
Totals, averages and percentages	55	26	29	100	2,573	58.48	100.00

Bureau County—Second District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Spring Val. Coal Co. No. 1.	Spring Valley	337,156	255,884	81,272	$1 50	$438,084
2	Spring Val. Coal Co. No. 2-4	"	311,456	239,488	71,968	1 50	408,814
3	Spring Val. Coal Co. No. 3.	"	267,941	177,072	90,869	1 50	357,953
4	Spring Val. Coal Co. No. 5.		6,292	3,760	2,532	1 50	7,050
5	Whitebreast Fuel Co., I. W. Fowler, receiver, "B".	Ladd	203,964	152,564	51,400	1 53	268,073
6	Chicago, Wilm. & Vermil. Coal Co., No. 1.	Seatonville	193,801	146,724	47 077	1 23	198,368
7	Marquette Third Vein Coal Co., No. 1.	Marquette	184,705	131,699	53,006	1 60	269,204
8	Sheffield Mining Co.	Sheffield.	21,595	21,595	.....	1 75	37,791
9	W. G. Thomas & Co.	"	2,054	2,054	.....	1 75	3,594
10	Matthew Duncan	"	1,660	1,660	.....	1 75	2,905
11	John V. Duncan	"	750	750	.....	1 75	1,312
12	George Heathcock	Princeton	2,802	2,802	.....	1 80	5,044
13	A. W. Walton	"	1,478	1,478	.....	2 00	2,956
14	Thos. Herrington	"	1,448	1,448	.....	2 00	2,896
15	Wm. Smith & Son	"	1,430	1,430	.....	2 00	2,860
16	Wm. Brandt	Mineral	5,940	5,940	.....	1 50	8,910
17	Tompkins Bros	"	2,552	2,552	.....	1 50	3,828
18	C. W. Riley	Neponset	590	590	.....	1 50	885
19	Henry Kempin & Co.	"	560	560	.....	1 75	980
20	Tiskilwa Coal Co.	Tiskilwa	882	882	.....	1 75	1,543
	Totals	.....	1,549,056	1,150,932	398,124	.....	$2,023,050
	Averages	.....	.....	.....	.....	$1 49	....

Mines in 1900, 18.
New mines, 4.
Abandoned mines, 2.
Mines in 1901, 20.

Bureau County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	13,240	9,494	271	337,156	.....	$0 76	.....	540	98	20	45	703	1
10,666	.....	10,382	242	311,456	.....	76	.....	560	105	22	39	726	2
.....	.....	6,181	238	267,941	.....	76	.....	525	87	18	33	663	3
.....	8	1,568	30	6,292	.....	76	.....	32	11	4	18	65	4
1,314	3,246	10,526	245	203,964	.....	76	.....	350	80	15	30	475	5
.....	2,828	8,904	252	193,801	.....	76	.....	260	86	12	30	388	6
.....	2,020	5,318	256	184,705	.....	76	.....	340	70	20	40	470	7
13,305	8,290	.....	300	21,595	.....	87½	.....	45	5	....	4	54	8
.....	2,004	50	130	2,054	.....	1 00	.....	9	.....	....	1	10	9
.....	1,660	.....	175	1,660	.....	1 00	.....	6	.....	....	1	7	10
.....	750	.....	200	750	.....	1 00	.....	2	.....	....	1	3	11
.....	2,802	.....	216	2,802	.....	80	.....	6	.....	1	1	8	12
.....	1,478	.....	140	1,478	.....	1 00	.....	6	.....	....	1	7	13
.....	1,448	.....	155	1,448	.....	1 00	.....	5	.....	1	1	7	14
.....	1,430	.....	160	1,430	.....	1 00	.....	5	.....	....	1	6	15
.....	5,900	40	246	5,940	.....	75	.....	10	1	1	2	14	16
.....	2,552	.....	200	2,552	.....	75	.....	4	.....	....	1	5	17
.....	550	40	165	590	.....	87½	.....	3	.....	....	1	4	18
.....	460	100	100	560	.....	87½	.....	2	.....	....	1	3	19
.....	882	.....	250	882	.....	1 00	.....	2	.....	....	1	3	20
25,285	51,548	52,603	....	1,549,056	.....	.....	.....	2,712	543	114	252	3,621	
.....	.....	.....	199	.....	.....	$0 76	.....	.....	.....	....	....	.....	

Henry County—Second District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	J. J. Fleming	Kewanee	7,110	6,810	300	$1 88	$12,953
2	Kewanee Min. & Mfg. Co.	"	7,000	6,000	1,000	1 75	11,000
3	Philipp Henry	"	3,800	3,600	200	2 00	7,250
4	Bates Bros	"	3,690	3,570	120	1 94	6,956
5	Kewanee Coal & Min. Co.	"	3,150	3,000	150	1 95	5,887
6	Sam Garland	"	2,840	2,840	.....	1 75	4,970
7	Emil Ahlgren	"	2,500	2,400	100	1 75	4,225
8	Bernard Kirley	"	2,498	2,298	200	1 75	4,071
9	Henry Kempin	"	1,600	1,500	100	1 75	2,650
10	Matthew Atkinson	"	1,255	1 255	.....	1 82	2,284
11	Ralph Todd	"	850	850	.....	2 00	1,700
12	P. Maloen & Son	"	800	700	100	1 75	1,275
13	Max Groy	"	690	640	50	1 75	1,133
14	Kenneth Murchison	"	490	490	.....	1 75	857
15	R. G. Duff	"	440	440	.....	1 50	660
16	Joseph Dixon	"	350	350	.....	1 75	612
17	Joseph Pyle	"	288	288	.....	1 50	432
18	Thos. Carter & Son	"	255	255	.....	2 00	510
19	Ted Carter	"	122	122	.....	1 75	213
20	Herdien Coal Co. No. 15	Galva	14,877	14,277	600	1 70	24,571
21	Jas. H. Murray	"	4,000	3,800	200	2 00	7,700
22	Fred Kenady	Cambridge	5,568	2,906	2,662	2 00	8,500
23	James Kay	Atkinson	2,180	2,080	100	2 00	4,185
24	James Waine	"	1,600	1,460	140	2 00	2,955
25	Elery Riley	"	1,300	1,108	192	2 00	2,261
26	Chas. H. Stiner	"	1,080	880	200	2 00	1,810
27	John Mowbray	"	880	880	.....	2 00	1,760
28	James Kershaw	Briar's Bluff	3,162	2,862	300	1 75	5,234
29	Tim Downing	"	450	420	30	1 50	645
30	Maurice Cadagan	"	300	300	.....	1 50	450
31	John McCaffrey	Blossomburg	5,200	3,900	1,300	1 25	5,525
32	John Summerson	Coal Valley	1,440	1,090	350	1 25	1,362
33	James Irwin	Green River	150	120	30	1 75	218
34	M. M. Aldrich	Geneseo	1,620	1,296	324	2 00	2,754
	Totals		83,535	74,787	8,748	.....	$139,751
	Averages		.....	.....	.....	$1 80	.....

Mines in 1900, 35.
New mines, 6.
Abandoned mines, 7.
Mines in 1901, 34.

Henry County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hard mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	6,810	300	180	7,110	.....	$1 12½	.....	18	1	....	1	20	1
.....	6,700	300	300	7,000	.....	1 12½	.....	12	1	....	1	14	2
.....	3,600	200	150	3,800	.....	1 12½	.....	10	.....	....	1	11	3
.....	3,570	120	225	3,690	.....	1 12½	.....	8	.....	....	1	9	4
.....	3,000	150	120	3,150	.....	1 12½	.....	15	1	....	2	18	5
.....	2,840	.....	230	2,840	.....	1 12½	.....	6	.....	....	1	7	6
.....	2,400	100	260	2,500	.....	1 12½	.....	5	.....	....	1	6	7
.....	2,298	200	125	2,498	.....	1 12½	.....	6	.....	....	2	8	8
.....	1,500	100	250	1,600	.....	1 12½	.....	4	.....	....	1	5	9
.....	1,230	25	180	1,255	.....	1 12½	.....	4	.....	....	1	5	10
.....	850	.....	100	850	.....	1 12½	.....	3	.....	....	1	4	11
.....	790	10	160	800	.....	1 12½	.....	3	.....	....	1	4	12
.....	640	50	130	690	.....	1 00	.....	3	.....	....	1	4	13
.....	490	.....	150	490	.....	87½	.....	3	.....	....	....	3	14
.....	440	.....	90	440	.....	87½	.....	4	.....	....	1	5	15
.....	350	.....	140	350	.....	1 12½	.....	2	.....	....	....	2	16
.....	288	.....	80	288	.....	87½	.....	2	.....	....	....	2	17
.....	255	.....	118	255	.....	1 12½	.....	1	.....	....	....	1	18
.....	122	.....	80	122	.....	1 12½	.....	1	.....	....	....	1	18
.....	14,277	600	305	14,877	.....	92	.....	31	1	....	3	35	20
.....	3,800	200	200	4,000	.....	1 00	.....	13	1	....	1	15	21
.....	5,208	360	245	5,568	.....	80	.....	8	2	....	1	11	22
.....	2,080	100	270	2,180	.....	1 25	.....	10	.....	....	1	11	23
.....	1,460	140	220	1,600	.....	1 25	.....	4	.....	....	1	5	24
.....	1,108	192	220	1,300	.....	1 25	.....	4	.....	....	1	5	25
.....	880	200	200	1,080	.....	1 25	.....	3	.....	....	1	4	26
.....	880	.....	250	880	.....	1 25	.....	2	.....	....	....	2	27
.....	2,108	.....	260	3,162	.....	1 00	.....	6	.....	....	1	7	28
.....	420	30	80	450	.....	1 00	.....	4	.....	..	1	5	29
.....	300	.....	80	300	.....	1 00	.....	2	.....	....	....	2	30
.....	.....	.....	70	5,200	.....	64	.....	21	2	....	2	25	31
.....	340	.....	110	1,440	.....	64	.....	5	1	....	1	7	32
.....	120	30	70	150	.....	1 00	.....	1	.....	....	1	2	33
.....	1,600	20	200	1,620	.....	87½	.....	4	.....	....	1	5	34
.....	72,754	3,427	....	83,535	.....	.....	.....	228	10	....	32	270	
.....	.....	.....	172	.....	.....	$0 71	.....	.....	.....	....	.....	.....	

Knox County—Second District—1901.

Number.	Name of Operator.	Postoffice Address of Mines.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Etherly Coal Co. No. 2	Etherley	21,550	15,890	5,660	$1 28	$24,102
2	Etherly Coal Co, local	"	3,950	3,688	262	1 28	5,022
3	Ed. Peterson	"	584	584	.....	1 25	730
4	George Essex, shaft	Soperville	7,700	7,700	.....	1 75	13,475
5	George Essex, slope	"	800	800	.....	1 75	1,400
6	Reed & Pendergast	"	3,800	3,800	.....	1 75	6,650
7	William Woodward	Galesburg	3,200	3,150	50	1 75	5,537
8	Pat Powers	"	520	520	.....	1 75	910
9	Chas. Simpson	Wataga	2,870	2,870	.....	1 50	4,305
10	Otto Isaacson	"	2,000	2,000	.....	1 50	3,000
11	Rodell & Mitchell	"	1,660	1,660	.....	1 50	2,490
12	Taylor Bros	"	1,400	1,400	.....	1 50	2,100
13	Louis Nodene & Son	"	1,228	1,228	.....	1 50	1,842
14	N. A. Anderson	"	654	654	.....	1 50	981
15	John Thorn	"	400	400	.....	1 50	600
16	Frank Reinhold	"	328	328	.....	1 50	492
17	Peter Dolan & Son	"	86	86	.....	1 50	129
18	George Clifford	Oneida	4,000	4,000	.....	1 75	7,000
19	Terrance McGovern	"	1,200	1,200	.....	1 50	1,800
20	James McGovern	"	750	750	.....	1 50	1,125
21	Chas. Morgan	"	500	500	.....	1 50	750
22	Isam Dalton	Yates City	3,000	2,500	500	1 50	4,000
23	Bowman Bros	"	1,470	920	550	1 50	1,655
24	Z. F. Dudley	Knoxville	3,200	3,200	.....	1 75	5,600
25	Nelson & Anderson	"	1,692	1,692	.....	1 75	2,961
26	James Nelson	"	290	290	.....	1 75	507
27	Frank Fink	Truro	1,400	1,400	.....	1 25	1,750
28	John Walsh	"	1,132	1,132	.....	1 25	1,415
29	Wm. M. Welker	Farmington	390	390	.....	1 50	585
30	John S. Jordan	"	318	318	.....	1 50	477
31	H. E. Bonney	Abingdon	1,800	1,800	.....	2 00	3,600
32	L. Loopman	Middle Grove	530	530	.....	1 00	530
33	Ambrose King	Victoria	840	840	.....	1 50	1,260
34	Eric Herkstrom	"	720	720	.....	1 25	3,900
39	Combined product, etc., of five drift mines, located in Copley, Persifer and Victoria townships	"	2,400	2,400	.....	1 25	3,000
	Totals		78,362	71,340	7,022	.....	$112,685
	Averages		.....	.....	.....	$1 51	.....

Mines in 1900, 45.
New mines, 7.
Abandoned mines, 13.
Mines in 1901, 39.

Knox County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
650	198	.....	250	21,550	.....	$0 75	.....	30	10	...	5	45	1
.....	.....	.....	190	3,950	.....	75	.....	10	.....	....	1	11	2
.....	164	.....	100	584	.....	75	.....	3	.....	....	....	3	3
.....	7,500	200	200	7,700	.....	1 00	.....	16	1	....	1	18	4
.....	750	50	100	800	.....	75	.....	3	.....	....	1	4	5
.....	3,740	60	208	3,800	.....	1 00	.....	10	1	....	1	12	6
.....	3,150	50	160	3,200	.....	1 00	.....	8	1	....	1	10	7
.....	520	.....	110	520	.....	1 00	.....	3	.....	....	....	3	8
.....	2,870	.....	200	2,870	.....	87½	.....	7	.....	....	1	8	9
.....	2,000	.....	160	2,000	.....	87½	.....	7	.....	....	1	8	10
.....	1,610	50	183	1,660	.....	87½	.....	5	.....	....	1	6	11
.....	1,400	.....	180	1,400	.....	87½	.....	4	.....	....	1	5	12
.....	1,228	.....	150	1,228	.....	87½	.....	5	.....	....	1	6	13
.....	654	.....	120	654	.....	87½	.....	3	.....	....	1	4	14
.....	400	.....	100	400	.....	87½	.....	2	.....	...	1	3	15
.....	328	.....	100	328	.....	87½	.....	2	.....	....	....	2	16
.....	86	.....	50	86	.....	87½	.....	1	.....	....	....	1	17
.....	4,000	.....	280	4,000	.....	87½	.....	8	.....	....	1	9	18
.....	1,200	.....	125	1,200	.....	87½	.....	5	.....	....	1	6	19
.....	750	.....	200	750	.....	87½	.....	3	.....	....	1	4	20
.....	500	.....	100	500	.....	87½	.....	3	.....	....	....	3	21
.....	3,000	.....	200	3,000	.....	75	.....	8	.....	....	2	10	22
.....	1,220	250	150	1,470	.....	75	.....	4	.....	....	1	5	23
.....	3,150	50	234	3,200	.....	1 12½	.....	10	.....	....	1	11	24
.....	1,692	.....	200	1,692	.....	1 12½	.....	5	.....	....	....	5	25
.....	290	.....	100	290	.....	1 12½	.....	2	.....	....	1	3	26
.....	1,400	.....	220	1,400	.....	75	.....	4	.....	....	1	5	27
.....	1,132	.....	150	1,132	.....	75	.....	3	.....	....	....	3	28
.....	390	.....	120	390	.....	87½	.....	2	.....	....	....	2	29
.....	318	.....	100	318	.....	87½	.....	2	.....	....	....	2	30
.....	1,800	.....	250	1,800	.....	1 25	.....	6	.....	....	....	6	31
.....	530	.....	120	530	.....	75	.....	2	.....	....	....	2	32
.....	840	.....	120	840	.....	87½	.....	4	.....	....	....	4	33
.....	720	.....	150	720	.....	87½	.....	3	.....	....	....	3	34
.....	2,400	.....	130	2,400	.....	87	.....	12	.....	....	....	12	39
650	51,930	710	....	78,362	.....	.....	.....	205	13	....	26	244	
.....	.....	.....	157	.....	.....	$0 87	.....	.....	.....	....	....	.....	

Marshall County—Second District--1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Devlin Coal Co., No. 1, 3d v.	Toluca	215,908	72,226	143,682	$ 1 50	$277,251
2	Devlin Coal Co., No. 2, 2d v.	Toluco	65,605	45,924	19,681	1 50	78,886
3	Wenona Coal Co., No. 1	Wenona	88,072	64,986	23,086	1 70	127,353
4	Marquette Coal Co	Sparland	11,615	8,782	2,833	1 76	18,604
5	Hamilton & Newell	"	480	480		1 25	600
6	George Christman	"	368	368		1 50	552
7	George Kear	"	240	240		1 54	360
8	R. H. Ingram	"	220	220		1 25	275
9	Nighswonger Bros	"	180	180		1 25	225
10	Bernard Lanning	"	130	130		1 25	162
11	E. O. Frisbie	"	120	120		1 25	150
12	Cyrus Wright	"	100	100		1 25	125
13	Jas. Medearis	Henry	1,500	1,500		1 25	1,875
14	Joseph Caley	"	400	400		2 00	800
15	William Horrocks	"	360	360		1 50	540
16	William Bough	"	280	280		1 50	420
17	Wm. Lopeman	"	256	256		1 50	384
18	Ed. Bennett	Chillicothe	500	500		1 25	625
	Totals		386,334	197,052	189,282		$509,187
	Averages					$1 57	

Mines in 1900, 17.
New mines, 2.
Abandoned, 1.
Mines in 1901, 18.

Marshall County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
26,093	5,138	6,300	275	215,908	.....	$0 76	.....	375	56	12	35	478	1
.....	.....	1,500	271	65,605	.....	58	.....	70	18	4	8	100	2
.....	6,492	5,000	213	88,072	.....	76	.....	150	30	5	22	207	3
.....	4,847	768	221	11,615	.....	76	.....	27	6	....	6	39	4
.....	480	.....	150	480	.....	75	.....	2	.....	....	....	2	5
.....	368	.....	70	368	.....	1 00	.....	3	.....	....	....	3	6
.....	240	.....	75	240	.....	1 00	.....	2	.....	....	....	2	7
.....	220	.....	80	220	.....	80	.....	2	.....	....	....	2	8
.....	180	.....	95	180	.....	75	.....	2	.....	....	....	2	9
.....	130	.....	100	130	.....	75	.....	1	.....	....	....	1	10
.....	120	.....	90	120	.....	75	.....	1	.....	....	....	1	11
.....	100	.....	80	100	.....	75	.....	1	.....	....	....	1	12
.....	1,500	.....	250	1,500	.....	75	.....	4	.....	....	....	4	13
.....	400	.....	130	400	.....	1 25	.....	2	.....	....	....	2	14
.....	360	.....	120	360	.....	1 00	.....	2	.....	....	....	2	15
.....	280	.....	90	280	.....	1 00	.....	2	.....	....	....	2	16
.....	256	.....	80	256	.....	1 00	.....	2	.....	....	....	2	17
.....	500	.....	70	500	.....	75	.....	2	.....	....	....	2	18
26,093	21,611	13,568	....	386,334	.....	.....	.....	650	110	21	71	852	
.....	.....	.....	137	.....	.....	$0 73	.....	.....	.....	....	....	.....	

Mercer County—Second District—1901.

Number.	Name of Operator.	Postoffice Addsess of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Coal Valley Min. Co., No. 2..	Sherrard.....	158,598	88,522	70,076	$1 41	$176,697
2	Coal Valley Min. Co., No. 1..	Cable	57,817	39,576	18,241	1 41	69,907
3	Lilliman & Co.....	"	2,600	2,400	200	1 50	3,700
4	B. B. Peterson.....	"	1,600	1,600	.....	1 50	2,400
5	M. A. Beers & Son.....	"	1,208	920	288	2 00	2,056
6	Empire Coal Co., No. 1.....	Gilchrist.....	10,743	7,865	2,878	1 45	13,909
7	Empire Coal Co., No. 3.....	"	166,120	102,141	63,979	1 45	198,161
8	Alden Coal Co., No. 2.....	Wanlock.....	144,086	80,450	63,636	1 42	174,254
9	William Penman.....	Preëmption...	3,000	3,000	.....	1 50	4,500
10	Peter Docherty.....	" ..	2,560	2,400	160	1 50	3,680
11	Joseph Williams.....	" ..	1,280	1,200	80	1 50	1,840
12	Ed Boden.....	" ..	864	720	144	1 50	1,152
13	G. W. Martin.....	Laoc	3,596	3,596	.....	1 50	5,394
14	W. P. Williams.....	"	2,133	2,093	40	1 50	3,160
15	J. B. Martin	"	1,920	1,920	.....	1 50	2,880
16	U. S. Clay Mfg. Co.....	Griffin	2,730	.....	2,730	.....	3,412
17	S. J. Young.....	"	920	920	.....	1 75	1,610
18	Jones & Boden.....	Viola.....	1,828	1,736	92	1 50	2,650
	Totals.....	.....	563,603	341,059	222,544	.....	$671,362
	Averages	.....	.....	.....	.....	$1 43	.....

Mines in 1900, 18.
New mines, 3.
Abandoned, 3.
Mines in 1901, 18.

Mercer County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
883	2,655	5,112	205	158,598	.....	$0 64	.....	151	103	6	30	290	1
480	897	3,650	222	57,817	.....	64	.....	50	26	....	35	111	2
.....	400	200	180	2,600	.....	64	.....	5	.....	....	2	7	3
.....	1,550	50	175	1,600	.....	80	.....	3	.....	....	1	4	4
.....	1,208	.....	249	1,208	.....	1 00	.....	4	.....	....	1	5	5
.....	48	615	74	10,743	.....	60	.....	34	20	5	7	66	6
.....	1,578	2,000	262	166,120	.....	60	.....	145	40	15	16	216	7
1,583	1,822	7,300	240	144,086	.....	60	.....	135	40	10	15	200	8
.....	3,000	.....	250	3,000	.....	87½	.....	4	.....	....	1	5	9
.....	2,400	160	200	2,560	.....	87½	.....	7	.....	....	1	8	10
.....	1,260	20	150	1,280	.....	87½	.....	4	.....	....	1	5	11
.....	720	144	50	864	.....	87½	.....	4	.....	1	1	6	12
.....	3,596	.....	250	3,596	.....	87½	.....	6	.....	....	1	7	13
.....	2,093	40	204	2,133	.....	87½	.....	4	.....	....	1	5	14
.....	1,920	.....	160	1,920	.....	87½	.....	3	.....	1	1	5	15
.....	.....	2,730	255	2,730	.....	1 00	.....	5	1	....	1	7	16
.....	920	.....	200	920	.....	1 00	.....	3	.....	....	1	4	17
.....	1,108	20	200	1,828	.....	87½	.....	5	.....	1	1	7	18
2,946	27,175	22,041	....	563,603	.....	.....	.....	572	230	39	117	958	
.....	.....	.....	196	.....	.....	$0 62	.....	.....	.....	....	....	.....	

Rock Island County—Second District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	John J. Pryce, No. 2	Coal Valley	20,000	16,000	4,000	$1 60	$27,600
2	Black Diam'd C. Co., B'k Dia.	"	2,808	1,850	958	1 50	3,643
3	Sackville Bros.	"	1,398	1,198	200	1 70	2,136
4	W. E. Wynn	"	1,140	640	500	1 75	1,735
5	Stoddard & Summerson	"	1,000	1,000	.....	1 50	1,500
6	James Sackville	"	660	660	.....	1 75	1,155
7	John Summerson	"	342	342	.....	1 50	513
8	John Hynd	Loding	9,500	8,600	900	1 75	15,383
9	Loding Bros.	"	5,112	4,592	520	1 75	8,228
10	Jamieson & Allison	"	1,960	1,960	.....	1 75	3,430
11	T. S. Silvis, No. 2	Carbon Cliff	9,065	6,857	2,208	1 50	12,050
12	T. S. Silvis, No. 1	"	4,414	4,184	230	1 75	7,437
13	Stone Bros.	"	1,480	1,480	.....	1 75	2,590
14	Groth Bros.	"	486	486	.....	1 75	850
15	Wm. Parker	Milan	2,600	2,400	200	1 75	4,300
16	David Walsh	"	300	280	20	1 75	495
17	Guckert Bros.	Hampton	904	785	119	1 75	1,485
18	Fred Vonach	"	230	230	.....	1 75	402
	Totals	.....	63,399	53,544	9,855	.....	$94,932
	Averages	.....	.....	.....	.....	$1 66	.....

Mines in 1900, 17.
New mines, 3.
Abandoned mines, 2.
Mines in 1901, 18.

Rock Island County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	19,700	300	270	20,000	.....	$0 90	.....	25	5	....	4	34	1
.....	230	250	235	2,808	.....	87½	.....	5	.....	....	1	6	2
.....	1,198	200	140	1,398	.....	90	.....	6	.....	....	1	7	3
.....	1,140	.....	180	1,140	.....	64	.....	3	.....	....	1	4	4
.....	1,000	.....	100	1,000	.....	90	.....	6	.....	....	1	7	5
.....	660	.....	130	660	.....	87½	.....	3	.....	....	1	4	6
.....	342	.....	100	342	.....	87½	.....	2	.....	....	....	2	7
.....	9,350	150	230	9,500	.....	1 00	.....	19	1	....	2	22	8
.....	4,992	120	221	5,112	.....	1 00	.....	9	1	....	2	12	9
.....	1,960	.....	150	1,960	.....	1 00	.....	5	.....	....	1	6	10
.....	949	200	138	9,065	.....	64	.....	41	4	....	4	49	11
.....	4,214	200	211	4,414	.....	1 00	.....	7	.....	....	1	8	12
.....	1,480	.....	190	1,480	.....	1 00	.....	4	.....	....	1	5	13
.....	486	.....	80	486	.....	1 00	.....	4	.....	....	....	4	14
.....	2,400	200	280	2,600	.....	90	.....	4	.....	....	1	5	15
.....	280	20	70	300	.....	90	.....	2	.....	....	....	2	16
.....	904	.....	130	904	.....	1 00	.....	5	.....	....	1	6	17
.....	230	.....	100	230	.....	1 00	.....	2	.....	....	....	2	18
.....	51,515	1,640	....	63,399	.....	.....	.....	152	11	....	22	185	
.....	.....	.....	164	.....	.....	$0 64	.....	.....	.....	....	....	.....	

Stark County—Second District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	George R. Watson	Wyoming	2,600	2,400	200	$1 50	$3,700
2	Jas. Higbee	"	2,448	2,448		1 50	3,672
3	Robinson & Stephenson	"	2,226	2,226		1 50	3,339
4	Higbee & Robinson	"	770	770		1 50	1,155
5	John Thurston	"	640	640		1 50	960
6	John Price	"	260	260		1 50	390
7	Foster Coulson	"	250	250		1 50	375
8	John Scott	Modena	1,340	1,340		1 50	2,010
9	Ben. Smith	"	880	880		1 50	1,320
10	F. B. Newton	"	400	400		1 50	600
11	Alex. Morrison	"	360	360		1 50	540
12	Strawther French	Bradford	2,562	2,562		1 75	4,483
13	Chas. Montooth	"	1,400	1,320	80	1 75	2,350
14	William Jones	"	320	320		1 75	560
15	B. F. Newton	"	50	50		1 75	88
16	J. M. Robinson	Elmira	2,800	2,600	200	1 50	4,000
17	Haney Dunn	Osceola	1,240	1,240		1 25	1,550
18	John E. Perkins	"	120	120		1 25	150
19	John Catton	West Jersey	1,610	1,610		1 50	2,415
20	Joseph Goode	Lombardville	1,248	1,208	40	2 00	2,416
21	John Leitch	Lafayette	1,200	1,200		1 50	1,800
22	Harry Storey	Toulon	1,800	1,400	400	1 50	2,120
	Totals		26,524	25,604	920		$39,993
	Averages					$1 55	

Stark County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	2,500	100	200	2,600	.....	$0 75	.....	6	.....	....	2	8	1
.....	2,448	.....	150	2,448	.....	75	.....	9	.....	....	1	10	2
.....	2,226	.....	260	2,226	.....	75	.....	4	.....	....	1	5	3
.....	770	.....	120	770	.....	75	.....	5	.....	....	1	6	4
.....	640	.....	100	640	.....	87½	.....	3	.....	....	....	3	5
.....	260	.....	100	260	.....	75	.....	2	.....	....	....	2	6
.....	250	.....	100	250	.....	75	.....	2	.....	....	....	2	7
.....	1,340	.....	200	1,340	.....	87½	.....	4	.....	....	1	5	8
.....	880	.....	150	880	.....	87½	.....	4	.....	....	1	5	9
.....	400	.....	180	400	.....	87½	.....	3	.....	....	1	4	10
.....	360	.....	120	360	.....	87½	.....	2	.....	....	1	3	11
.....	2,562	.....	260	2,562	.....	87½	.....	5	.....	....	1	6	12
.....	1,400	.....	210	1,400	.....	87½	.....	4	.....	....	1	5	13
.....	320	.....	100	320	.....	87½	.....	2	.....	....	1	3	14
.....	50	.....	20	50	.....	87½	.....	2	.....	....	1	3	15
.....	2,620	180	300	2,800	.....	87½	.....	5	.....	....	1	6	16
.....	1,240	.....	200	1,240	.....	75	.....	4	.....	....	1	5	17
.....	120	.....	80	120	.....	75	.....	1	.....	....	....	1	18
.....	1,610	.....	280	1,610	.....	87½	.....	3	.....	....	1	4	19
.....	1,208	40	200	1,248	.....	1 00	.....	4	.....	....	1	5	20
.....	1,200	.....	220	1,206	.....	87½	.....	3	.....	....	1	4	21
.....	1,800	.....	200	1,800	.....	87½	.....	5	.....	....	1	6	22
.....	26,204	320	....	26,524	.....	.....	.....	82	.....	....	19	101	
.....	.....	.....	170	.....	.....	$0 83	.....	.....	.....	....	....	.....	

Warren County—Second District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Chas. McCartney	Alexis	5,000	4,500	500	$1 50	$7,100
2	Cook & Rohr	"	2,380	2,180	200	1 50	3,350
3	Samuel McKahn	"	1,704	1,404	300	1 50	2,256
4	John Simcock	"	1,600	1,600		1 50	2,400
5	Thos. Caldwell	Avon	1,096	1,096		1 75	1,918
6	Thos. Delaney	"	440	440		1 75	770
7	Henry Chatterton	"	400	400		1 75	700
8	Thos. Smith	"	360	360		1 75	630
9	Henry Fullerton	"	192	192		1 75	336
10	John Selkirk	Monmouth	1,600	1,600		2 00	3,200
11	Murphy & Redmond	"	1,200	1,200		2 00	2,400
12	G. H. Little	Roseville	1,800	1,800		2 00	3,600
13	J. G. Kidd	"	360	360		2 00	720
14	Thos. Wearmouth	Youngstown	480	480		2 00	960
15	Lieurance & Miller	"	400	400		2 00	800
16	Thos. Lee	"	208	208		2 00	416
17	Samuel White	Swan Creek	320	320		2 00	640
18	Joseph Simpson	"	60	60		2 00	120
	Totals		19,600	18,600	1,000		$32,316
	Averages					$1 71	

Mines in 1900, 17.
New mines, 3.
Abandoned, 2.
Mines in 1901, 18.

Warren County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Supplied to locomotives.	Sold to local trade	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	4,900	100	250	5,000	.....	$0.75	.....	6	.....	....	2	8	1
.....	2,280	100	150	2,380	.....	75	.....	5	.....	....	1	6	2
.....	1,644	60	130	1,704	.....	75	.....	5	.....	....	1	6	3
.....	1,600	.....	200	1,600	.....	75	.....	3	.....	....	1	4	4
.....	1,096	.....	220	1,096	.....	1.25	.....	5	.....	....	....	5	5
.....	440	.....	190	440	.....	1.25	.....	3	.....	....	....	3	6
.....	400	.....	160	400	.....	1.25	.....	3	.....	....	...	3	7
.....	360	.....	220	360	.....	1.25	.....	2	.....	...	....	2	8
.....	192	.....	130	192	.....	1.25	.....	2	.....	....	....	2	9
.....	1,600	.....	250	1,600	.....	1.25	.....	5	.....	....	1	6	10
.....	1,200	.....	200	1,200	.....	1.25	.....	5	.....	....	1	6	11
.....	1,800	.....	225	1,800	.....	1.25	.....	10	.....	....	1	11	12
.....	360	.....	160	360	.....	1.25	.....	2	.....	....	....	2	13
.....	480	.....	140	480	.....	1.25	.....	3	.....	....	....	3	14
.....	400	.....	135	400	.....	1.25	.....	3	.....	....	....	3	15
.....	208	.....	120	208	.....	1.25	.....	2	.....	....	....	2	16
.....	320	.....	140	320	.....	1.25	.....	2	.....	....	....	2	17
.....	60	.....	70	60	.....	1.25	.....	1	.....	....	....	1	18
.....	19,340	260	....	19,600	.....	.....	.....	67	.....	....	8	75	
.....	.....	.....	172	.....	.....	$0.98	.....	.....	.....	....	....	.....	

Recapitulation by Counties—

Counties.	Number of mines.	Number of shipping mines.	No. of mines in local trade.	Total Tons Produced.	Average Value Per Ton at the Mine.						Aggregate value of total product.	Employes.		
					Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Waste.		Number of miners.	All other employés.	Total.
Bureau	20	8	12	1,549,056	$1.49	$1.45	$1.46	$1.25	$0.386	$0.30	$2,023,319	2,712	909	3,621
Henry	34	3	31	83,535	1.796	1.50	.....	1.50	0.468	0.495	139,751	228	42	270
Knox	39	3	36	78,362	1.514	1.15	.....	0.75	0.50	0.50	112,681	205	39	244
Marshall	18	4	14	386,334	1.575	1.343	.....	1.15	0.582	0.553	513,478	650	202	852
Mercer	18	6	12	563,603	1.433	1.295	.....	1.169	0.739	0.567	671,365	572	386	958
Rock Island	18	2	16	63,399	1.657	1.411	.....	1.00	0.673	0.475	94,988	152	33	185
Stark	22	..	22	26,524	1.552	.....	.....	.....	.....	0.50	40,652	82	19	101
Warren	18	..	18	19,600	1.705	.....	.....	0.75	.....	0.467	32,293	67	8	75
Totals	187	26	161	2,770,413	.....	.....	.....	.....	.....	.....	$3,628,527	4,668	1,638	6,306
Averages	...	..	...	.....	$1.51	$1.38	$1.46	$1.20	$0.534	$0.422	.....	.....	.....	.....

Whole number of mines reported in 1900, 189.
Number of new mines opened during the year, 30.
Number of mines exhausted or abandoned during the year, 32.
Whole number of mines reported for 1901, 187.

Second District—1901.

Disposition of Output—Tons.				Average number of days in operation.	How Mined—Tons.		Prices Paid Per Ton for—		Number of kegs of powder used for blasting coal.	Steam Boilers.	
Loaded on cars for shipment.	Supplied to locomotives at mines.	Sold to local trade.	Consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.		No. of mines using.	Number in use.
1,419,620	25,285	51,548	52,603	199	549,056	.....	$0.76	.....	327	11	†55
7,354	.....	72,754	3,427	172	83,535	.....	0.713	.....	542	21	†23
25,072	650	51,930	710	157	78,362	.....	0.87	.....	793	7	†7
325,062	26,093	21,611	13,568	137	386,334	.....	0.729	.....	3,148	4	18
511,441	2,946	27,175	22,041	196	563,603	.....	0.616	.....	26,415	12	‡32
10,244	.....	51,515	1,640	164	63,399	.....	0.64	.....	2,062	9	9
.....	.....	26,204	320	170	26,524	.....	0.834	.....	582	3	3
.....	.....	19,340	260	172	19,600	.....	1.02	.....	615	3	3
2,298,793	54,974	322,077	94,569	.....	2,770,413	.....	.....	.....	34,484	70	150
.....	.....	.....	.....	166	.....	.....	*$0.72	.....	.....	....	....

* Based on 2,448,892 tons.
† One upright.
‡ Two upright.

Screened coal—Bureau county, 43,741 tons, $0.874 cents per ton.
Henry county, 71,327 " 1.49 " "
Knox county, 78,362 " .87 " "
Marshall county, 5,134 " .864 " "
Mercer county, 23,639 " .895 " "
Rock Island county, 53,194 " .944 " "
Stark county, 26,524 " .834 " "
Warren county, 19,600 " .977 " "

Total.....321,521 tons, $0.932 cents per ton.

THIRD INSPECTION DISTRICT—1901.

Counties: Cass, Fulton, Hancock, McDonough, Menard, Peoria, Schuyler, and Tazewell.

JOHN W. GRAHAM, *Inspector*, Canton.

HON. DAVID ROSS, *Secretary*,
State Bureau of Labor Statistics, Springfield, Illinois.

Sir:—In compliance with section 12 of the mining law, defining the duties of inspectors of mines, I have the honor to herewith submit to you the eighteenth annual report of the coal mines in the Third Inspection District, which includes the coal producing counties of Cass, Fulton, Hancock, McDonough, Menard, Peoria, Schuyler and Tazewell, for the year ended June 30, 1901. This report gives tabulated statements by counties of the number of mines operated during the year, the number of shipping, also those that are operated for the local trade; the number of new, old, and abandoned mines; the total tons produced; the production of the different grades; the average selling prices per ton of the product at the mines, and the aggregate value of the total product; the number of miners that have been employed during the year, and all other employes in and around the mines; the number of tons shipped and the names of the railways carrying the same; the tons supplied to locomotives; tons sold to the local trade, and tons consumed and wasted at the mines; the average days of active operation during the year; the number of tons mined by hand and the tons mined by machines; the prices paid for both hand and machine mining; the number of mines using machines and the number of machines in use; the number of kegs of powder used for blasting coal; the number and kind of boilers in use at each mine, also the fatal and non-fatal accidents that have occured in this district during the year.

The following is a summary of the principal facts to be found in the various tables:

Number of mines	225
Number of shipping mines	53
Number of local mines	172
Total tons produced, all grades	1,985,255
Total tons of lump coal	1,172,376
Total tons of mine run coal	437,956
Total tons of egg coal	2,634
Total tons of nut coal	98,658
Total tons of pea or screenings	185,119

Total tons of slack or waste	88,462
Average price per ton of lump coal at the mine	$1,226
Average price per ton of mine run coal	$0,968
Average price per ton of egg coal	$1,284
Average price per ton of nut coal	$0,764
Average price per ton of pea or screenings	$0,431
Average price per ton of slack or waste	$0,399
Aggregate value of total product	$2,067,705
Number of miners	2,882
Number of others under ground	389
Number of boys under ground	100
Number of all above ground	389
Total number of employes	3,760
Total tons shipped on railroads	1,567,596
Total tons supplied to locomotives	35,161
Total tons sold to local trade	321,720
Total tons consumed or wasted at mine	60,728
Average number of days of active operation, all mines	163
Tons mined by hand	1,968,248
Tons mined by machines	16,957
Average price paid per ton for hand mining	$0,555
Average price paid per ton for machine mining	$0,455
Number of mines using machines	2
Number of machines in use	10
Number of kegs of powder used	79,675
Number of steam boilers in use	123
Number of fatal accidents	4
Number of non-fatal accidents	22
Number of tons to each fatal accident	496,301
Number of tons to each non-fatal accident	90,236
Number of employes to each fatal accident	940
Number of employes to each non-fatal accident	170

The following table gives the tons of coal produced, by counties, for the years 1900 and 1901, with the increase or decrease:

Counties.	Total Output, all Grades.		Increase.	Decrease.
	1900.	1901.		
Cass	2,650	2,450	.....	200
Fulton	665,439	646,400	.....	19,039
Hancock	5,280	4,655	.....	625
McDonough	64,822	51,042	.....	13,780
Menard	397,276	393,777	.....	3,499
Peoria	727,737	710,582	.....	17,155
Schuyler	13,100	14,690	1,590	.....
Tazewell	120,869	161,609	40,740	.....
Total	1,997,173	1,985,205	42,330	54,298
Total net decrease, tons				11,968

The counties of Cass, Fulton, Hancock, McDonough, Menard and Peoria show a decrease, while Schuyler and Tazewell have increased, which leaves a slight decrease in the district; this can only be accounted for by lack of trade.

New Mines—Applegate & Lewis have sunk a new mine at Cuba, Fulton county, on the T. P. and W. R. R.; this is No. 5 seam, four feet and six inches in thickness, the coal is of good quality; this mine has more water than any other mine in this district; the mine is fitted with shaker screens and good machinery; it has an escapement shaft sunk and has a new 12-foot fan built over it, with a stairway for the men.

The Whitebreast Fuel Co. has sunk a new shaft at Dunfermline, Fulton county, and is now fitting it up; the tower is steel, and the engine room and boiler rooms are built of fire-proof material; the escapement shaft has been sunk and work is progressing to make communication between the two shafts; this will be one of the best equipped mines in this district.

The Monmouth Coal Co., has sunk a new shaft four miles north of Canton, Fulton county, on the C. B. & Q. R. R. The company is now building the top works and putting in the machinery; it is expected the mine will be ready for operation in a short time. This mine is being fitted up to handle a large output of coal; it will have shaker screens and all modern improvements. The escapement shaft is now being sunk and communication will be made between the two shafts by the time the top works are completed.

Newsam Bros., Peoria, have sunk a new shaft at Reeds City, Peoria county; this mine is to take the place of the slope that was located at the same point; the slope is now abandoned and they are moving the machinery from the old mine. The new mine is being fitted up with shaker screens and all modern improvements.

The Ubben Coal Co. has sunk a new shaft at Pekin, Tazewell county, on the line of the Big Four railway. It is geological seam No. 5, about four feet six inches in thickness. The escapement shaft is sunk and communication opened between the two shafts.

The Junction Mining Co., Petersburg, Menard county, has opened up the old "Junction" shaft at that place and expect to employ a good force of men in the near future.

The Petersburg Coal Mining Co. is now sinking a shaft on the line of the C. P. & St. L. R. R., about two miles north of Petersburg, Menard county. (Since writing this report the company has abandoned the sinking of this shaft).

There are a number of new mines opened throughout the district that are hardly worth noticing, all being small mines and intended for local trade only. This class of mines are abandoned and new ones are opened each year.

Abandoned Mines—The Chicago & Kansas City Coal Co., has abandoned its mine at Petersburg, Menard county, and has moved the plant to Lincoln, Logan county.

The Hawley Coal Co., Pekin, Tazewell county, has abandoned its mine at that place and is selling the machinery and material of the plant.

The Egerton Coal Co., Colchester, McDonough county, has abandoned its mine and has quit the business.

P. W. Meehan has abandoned his mine at Breeds, Fulton county; he has purchased and is now operating the East Cuba mine in the same county.

Air Shafts and Escapements—A new air shaft has been sunk at the mine operated by Taylor Bros. & Howarth, at Edwards, Peoria county, this greatly improves the ventilation of their mine.

A. C. Mack Coal Co., Lewiston, Fulton county, has sunk an escapement shaft at its mine, makng the mine in full compliance with the law.

Improvements—Tucker & Schelsmith, East Peoria, Tazewell county, has made a new opening to their slope, and have built a new dump and put in a

tail rope; they have also built a switch from the L. E. & W. Railroad, which now makes this a shipping mine; it was formerly confined to the local trade.

At the East Cuba mine, Fulton county, operated by P. W. Meehan, the escapement shaft has been retimbered and a new stairway put in; a new track scale has also been put in, and improvements made around the dump.

Mine Fires—At the Ball Coal Co.'s mine, Bartonville, Peoria county, a fire occurred under ground, which caused the mine to be closed for over three months. The cause of the fire was spontaneous combustion.

Fatal Accidents—The following is a statement in detail of the fatal accidents that have occured in this district during the year:

Sept. 11, 1900, John Burgoyne, motorman, aged 24 years, single, lost his life in the Greenview Coal Co.'s mine at Greenview, Menard county. Deceased left the bottom of the shaft in the morning with a trip of 28 empty cars; Carrol Miller was the trip-rider, and was on the back end of the trip; there were 10 kegs of blasting powder in the third car from the motor; when about 4,000 feet from the bottom of the shaft the powder exploded, suddenly stopping the trip; Miller, who was nearly 200 feet from the front, called to Burgoyne but got no answer; he then tried to get to the front end of the trip, but could not do so, on account of the smoke and heat; he then ran for assistance which came, but when Burgoyne was found he was dead. Evidence was produced at the inquest that there were no open or broken kegs of powder among those loaded into the car, and that the motorman's light was fully 20 feet from the car containing the powder. This accident occured at a place on the roadway where there is an up-grade, and the full strength of the electric current is required to pull the trip. There is some conflict of opinion in regard to the cause of the explosion, however, I have ordered that no more powder be hauled in cars that are moved by electricity.

Oct. 12, 1900, George Jennings, driver, aged 21 years, married, was fatally injured on a trip of cars in the Wabash Coal Co's. mine, Athens, Menard county. Deceased was driving a trip of four cars on the north side of the mine, his foot caught some way in the front end of the car on which he was riding, pulling him in front of the car. Charles Ensley and Andrew Maddison, two timbermen, were working at the place where the accident occurred; they saw the first car run over him; when they got him out from under the cars, it was found that he was hurt internally, he died about four hours afterwards. He leaves a widow.

Nov. 13, 1900, William Gibson, miner, aged 18 years, single, was fatally burned with powder, in the Whitebreast Fuel Co's. mine, St. David, Fulton county; deceased was at work with his father, John Gibson, in the 3rd south entry on the west side of the shaft; when near the dinner hour the son went back to the break-through, to fire a shot; he had a full keg of powder which he opened with a pick by knocking a hole in the end of the keg, the powder exploded, burning him severely, from the effects of which he died nineteen hours afterwards.

Dec. 15, 1900, Edward Brown, driver, aged 21 years, single, was fatally injured in the Walschlag Coöperative Coal Co's. mine, near Peoria, Peoria

county; he was helping a miner to take out a car to where he had left his mule, the car struck a prop that was too near the track, knocking it out; Brown was instantly covered with a large amount of slate, when extricated it was found that his spine was broken; he was removed to his home, where he died ten days afterwards.

The tables of fatal and non-fatal accidents and the county schedules follow:

Respectfully submitted,

JOHN W. GRAHAM,

State Inspector of Mines, Third District, Canton, Ill.

Fatal Casualties—Third District, July 1, 1901.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widow.	Children.	Single.	Dependent.	Cause of Accident.
1900										
Sept.11	John Burgoyne	24	Motorman	Greenview	..	..	..	1	..	Powder explosion
Oct. 12	George Jennings	21	Driver	Atheus	1	1	..	..	1	Pit cars
Nov. 13	Wm. Gibson	18	Miner	St. David	..	..	..	1	..	Powder explosion
Dec. 15	Edward Brown	21	Driver	Peoria	..	..	..	1	..	Falling slate
	Totals	..			1	1	..	3	1	

Recapitulation of Fatal Accidents—Third District, 1901.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Athens	1	Driver	2	Falling slate	1	Greenview C. &M.Co.	1
Greenview	1	Moterman	1	Pit Cars	1	Wabash Coal Co.	1
Peoria	1	Miner	1	Powder explosion	2	Whitebreast Fuel Co.	1
St. David	1					WolschlagCo-op.Coal Co.	1
Totals	4		4		4		4

Non-Fatal Casualties—Third District, July 1, 1901.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of Injury.	Time lost—days.
1900									
July 16	Geo. Deushane...	30	Dunfermli'e	1	....	2	3	Foot injured, pit cars.....	33
Aug. 4	Wm. Stockton....	24	Walcott.....	1	....	1	2	Leg broken, flying coal.....	60
Oct. 10	Geo. Smith.....	30	Canton.....	1	....	2	3	Leg broken, falling slate.....	65
" 13	Robt. Knox.....	21	Athens	....	1	....	....	Leg broken, pit cars.....	180
Nov. 16	S. J. Munday.....	30	Elmwood.....	....	1	....	....	Leg broken, falling coal.....	70
" 26	Lars Swensen....	35	Athens	1	....	....	1	Head and arm injured, falling slate.....	60
Dec. 4	Chas. Polson.....	19	Petersburg..	....	1	....	....	Body injured, cage.....	35
" 15	T. E. Williams...	50	St. David...	1	....	1	2	Foot injured, falling roof.....	30
" 17	Chas. Hogg.....	27	Edwards ...	....	1	....	....	Hip injured, falling roof.....	60
" 30	John Dance.....	51	Dunfermli'e	1	....	1	2	Back injured, falling roof.....	34
1901									
Jan. 11	D. T. Coles	50	Dunfermli'e	1	....	8	9	Body burned, powder explos'n	40
" 15	Wm. Vandike....	36	Canton.....	....	1	....	....	Arm injured, falling roof.....	45
Feb. 21	Lewis Memmen..	42	Breeds.....	1	....	4	5	Leg broken, falling roof.....	80
Mch. 4	Alf. Wilson.....	36	Cuba.....	1	....	3	4	Back injured, falling slate....	39
" 14	James Potter.....	32	Peoria.....	1	....	2	3	Eyes injured, powder explos'n	45
" 21	L. M. Jarvis.....	28	Farmington.	1	....	....	1	Body injured, falling slate....	41
" 21	R. Jarvis.....	25	Farmington.	....	1	....	....	Back injured, falling slate	34
April 9	John Maquis.....	21	Norris.....	....	1	....	....	Arm broken, pit cars	60
" 10	Alfred Fryer	28	Farmington.	....	1	....	....	Back injured, falling slate....	30
" 22	Robert Nimmo...	49	E. Peoria...	1	....	4	4	Leg broken, falling coal.....	69
May 26	A. Swartwood....	33	Edwards....	....	1	....	....	Hip injured, pit cars.....	35
June 14	S. Monroe	30	Peoria.....	1	....	3	4	Eyes injured, powder explos'n	16

Total men injured.....	22
Number recovered.....	22
Time lost.....	1,161 days
Average time lost by men recovered.....	52.8 "

Recapitulation of Non-Fatal Accidents—Third District—1901.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Athens.....	2	Drivers.....	4	Pit cars.....	4	Athens Mining Co.....	2
Breeds	1	Miners.....	17	Falling coal	1	Applegate & Lewis.....	1
Canton..	2	Timberman...	1	Falling slate.....	6	Chi. & K. C. Coal Co....	1
Cuba.....	1			Flying coal	2	Elmwood Coal Co.....	1
Dunfermline.	3			Cage	1	Farmington Coal Co	2
Edwards.....	2			Falling roof.....	5	Howarth & Taylor	2
Elmwood.....	1			Powder explosion....	3	Monarch Coal Min. Co..	1
E. Peoria.....	1					Norris Coal Co.....	1
Farmington...	3					P. W. Meehan.....	1
Norris	1					P. G. Cummings.....	1
Peoria	2					Newsam Bros.....	1
Petersburg...	1					Royster's Mines.....	1
St. David.....	1					S. Ashley.....	1
Walcott.....	1					Thos. Purcell.....	1
						Whitebreast Fuel Co....	4
						Wolschlag Mines.....	1
Totals.....	22	.....	22	.....	22	.....	22

Table showing the Nature of Injuries, Number of Persons Injured, Dependents, Time Lost, with Averages and Percentages—Third District, 1901.

Nature of Injuries.	Number.	Married.	Single.	Dependents.	Time Lost.		Per cent of injuries.
					Total days.	Average days.	
Arm broken	1	.....	1	.....	60	60	4.55
Arm injured	1	.....	1	.....	45	45	4.55
Back injured	4	2	2	10	137	34	18.18
Body burned	1	1	.....	17	40	40	4.55
Body injured	2	1	1	1	76	38	9.10
Eyes injured	2	2	.....	12	61	30 1/2	9.10
Foot injured	2	2	.....	8	63	31 1/2	9.10
Head injured	1	1	.....	1	60	60	4.55
Hips injured	2	.....	2	.....	95	47 1/2	9.10
Legs broken	6	4	2	25	524	87 1/2	27.22
Total, averages and percentages	22	13	9	74	1,161	52.8	100.00

Cass County—Third District—1901.

Number.	Name of Operator.	Postoffice Address of Mines.	Output—Tons. Total.	Lump.	Other grades.	Average value of lump coal at the mine.	Aggregate value of total product.
1	Chris Nelson	Chandlerville	1,050	1,050	.....	$1 75	$1,838
2	Wm. Shore	"	1,400	1,400	.....	1 75	2,450
	Totals	.....	2,450	2,450	.....	.....	$4,288
	Averages	.....	.....	.....	.....	$1 75	.....

Mines in 1900, 2.
New mines, 1.
Abandoned mines, 1.
Mines in 1901, 2.

Fulton County—Third District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons. Total.	Lump.	Other Grades.	Average value of lump coal at the mine.	Aggregate value of total product.
1	Whitebreast Fuel Co., C	Dunfermline	137,331	100,792	36,539	$1 25	$146,522
2	Whitebreast Fuel Co., D	St. David	59,538	40,729	18,809	1 25	61,153
3	Astoria Coal & Mining Co	Astoria	8,314	4,583	3,731	1 35	8,876
4	Scripps Coal Co	"	15,506	9,735	5,771	1 39	18,196
5	Sunday Creek Coal Co	Middle Grove	56,843	34,269	22,574	1 08	51,634
6	Maplewood Coal Co	Farmington	59,000	34,810	24,190	1 10	52,779
7	Newsam Bros	"	12,178	7,672	4,506	1 25	11,528
8	Farmington Coal Co	"	47,666	20,117	27,549	1 25	50,321
9	Monarch Coal & Mining Co.	"	23,838	13,696	10,142	1 25	23,411
10	J. M. Laws	Canton	19,004	6,546	12,458	1 15	17,500
11	Taylor & Peck, No. 1	Cuba	9,900	.....	9,900	.....	9,900
12	Taylor & Peck, No. 2	"	6,700	.....	6,700	.....	6,700
13	P. W. Meehan	Breeds	10,000	7,000	3,000	1 15	9,250
14	John Gaffney	Cuba	37,928	.....	37,928	.....	37,928
15	Cline & Shaw	Fiatt	5,400	.....	5,400	.....	5,400
16	Canton Union Coal Co	Canton	29,616	19,991	9,625	1 15	29,135
17	Applegate & Lewis	Cuba	3,155	1,096	2,059	1 25	2,988
18	Norris Coal Co	Norris	36,853	13,650	23,203	1 30	36,457
19	Canton Coal Co	Canton	22,415	17,890	4,525	1 25	27,566
20	Simeon Durham	"	1,280	1,280	.....	1 25	1,600
21	S Ashby	"	1,400	1,400	.....	1 15	1,610
22	Murphy Bros	"	2,040	2,040	.....	1 15	2,346
23	Howat Bros	"	4,260	4,260	.....	1 15	4,899
24	Thomas Parcell	"	2,200	2,200	.....	1 25	2,750
25	Chipping & Martin	"	2,400	2,400	.....	1 12	2,688
26	Chas. Scanlon	"	1,120	1,120	.....	1 12	1,254
27	G. H. Ronk	"	480	480	.....	1 12	538
28	McBroom Bros	"	800	800	.....	1 12	896
29	Wm. Hughes	"	500	500	.....	1 12	560
30	Joseph McLaughlin	"	200	200	.....	1 12	224
31	E. E. Peck	"	1,800	1,800	.....	1 25	2,250

Cass County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	1,050	.....	175	1,050	.....	87½	.....	3	.....	....	1	4	1
.....	1,400	.....	180	1,400	.....	87½	.....	4	.....	....	1	5	2
.....	2,450	.....	355	2,450	.....	.....	.....	7	.....	....	2	9	
.....	.....	.....	178	.....	.....	87.5	.....	.....	.....	....	....	.....	

Fulton County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	654	3,039	198	137,331	.....	$0 56	.....	173	44	8	14	239	1
.....	.....	1,732	145	59,538	.....	56	.....	74	15	8	12	109	2
.....	390	190	68	8,314	.....	56	.....	33	4	....	4	41	3
.....	364	154	95	15,506	.....	56	.....	34	9	5	4	52	4
8,831	501	1,180	199	56,843	.....	56	.....	74	2	11	9	96	5
.....	.....	1,200	128	59,000	.....	56	.....	100	14	....	10	124	6
.....	1,000	250	59	12,128	.....	56	.....	30	8	1	6	45	7
.....	1,482	1,600	235	46,072	1,594	56	$0.49	55	17	12	9	93	8
.....	674	2,070	218	25,838	.....	56	.....	30	6	....	6	42	9
.....	151	824	216	19,004	.....	56	.....	25	3	....	2	30	10
900	.....	.....	200	9,900	.....	56	.....	16	2	....	3	21	11
.....	.....	.....	180	6,700	.....	56	.....	8	1	....	1	10	12
.....	100	900	200	10,000	.....	56	.....	20	4	....	3	27	13
9,059	.....	500	185	37,928	.....	56	.....	44	6	3	6	59	14
.....	.....	.....	200	5,400	.....	56	.....	8	1	....	1	10	15
.....	5,116	500	240	29,616	.....	56	.....	26	4	....	5	35	16
.....	.....	283	37	3,155	.....	56	.....	30	4	2	6	42	17
.....	200	1,580	260	36,855	.....	56	.....	50	7	....	8	65	18
.....	22,015	400	210	22,415	.....	78.5	.....	25	3	....	3	31	19
.....	1,200	80	200	1,280	.....	78.5	.....	2	.....	....	1	3	20
.....	1,400	.....	180	1,400	.....	78.5	.....	3	.....	....	1	4	21
.....	2,040	.....	200	2,040	.....	78.5	.....	3	.....	....	1	4	22
.....	4,060	200	180	4,260	.....	78 5	.....	5	.....	....	1	6	23
.....	2,000	200	150	2,200	.....	78.5	.....	3	.....	....	1	4	24
.....	2,400	.....	190	2,400	.....	78.5	.....	4	.....	....	....	4	25
.....	1,120	.....	200	1,120	.....	78.5	.....	2	.....	....	....	2	26
.....	480	.....	85	480	.....	78.5	.....	2	.....	....	....	2	27
.....	800	.....	200	800	.....	78.5	.....	3	.....	....	....	3	28
.....	560	.....	200	500	.....	78.5	.....	2	.....	....	....	2	29
.....	200	.....	100	200	.....	78.5	.....	1	.....	....	....	1	30
.....	1,750	50	200	1,800	.....	78.5	.....	4	.....	....	1	5	31

Fulton County, 1901—Continued.

Number.	Name of Operator.	Postoffice Address of Mines.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of product.
			Total.	Lump.	Other grades.		
32	Lewis Memmon	Canton	1,100	1,100		$1 25	$1,375
33	G. Van Winkle	Avon	200	200		1 50	300
34	Charles Roddis	Ipava	985	985		1 50	1,478
35	Deemy & Raffle	Farmington	700	700		1 50	1,050
36	Isaac Bath	Lewistown	1,200	1,200		1 50	1,800
37	A. C. Mach	"	2,880	2,880		1 50	4,320
38	Samuel Lowry	"	2,100	2,100		1 50	3,150
39	L. Chapin	"	780	780		1 50	1,170
40	A. Eyman	"	1,020	1,020		1 50	1,530
41	Joseph Gansell	"	700	700		1 50	1,050
42	John Stevens	Cuba	500	500		1 25	625
43	John Wright	"	450	450		1 25	563
44	GeorgeMarshall	"	900	900		1 25	1,125
45	R. Jones	"	350	350		1 25	438
46	K. A. Rumble	Astoria	1,370	1,370		1 25	1,713
47	Joseph Wilson	"	300	300		1 25	375
48	E R. Lannery	"	120	120		1 25	150
49	Wm. Peters	"	250	250		1 25	313
50	A. J. Rockwell	"	100	100		1 25	125
51	George Mercey	St. David	500	500		1 25	625
52	H. Tompkins	"	400	400		1 25	500
53	Arch Tyler	"	700	700		1 25	875
54	A. Bath	"	1,500	1,500		1 25	1,875
55	A. DeMoss,	"	300	300		1 24	375
56	Wm. Jordan	"	300	300		1 25	375
57	A. Anderson	Fairview	720	720		1 25	900
58	J. Abbdusky	"	500	500		1 25	625
59	George Essex	"	1,270	1,270		1 25	1,588
60	E. Detmars	"	640	640		1 25	800
61	R. E. Gould & Co	"	800	800		1 25	1,000
62	A. J. Gunnett	"	1,480	1,480		1 25	1,850
63	R. Blagden	Leaman	820	820		1 50	1,230
64	G. K. Barrere	Canton	800	800		1 25	1,000
	Totals		646,400	377,791	286,609		$663,026
	Averages					$1 22	

Mines in 1900, 69.
New mines, 15.
Abandoned mines, 20.
Mines in 1901, 64.

Fulton County—Third District—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	1,100	.....	125	1,100	.....	$0.78.5	.....	3	.....	.....	1	4	32
.....	200	.....	50	200	.....	75	.....	2	.....	.....	.....	2	33
.....	985	.....	150	985	.....	75	.....	2	.....	.....	1	3	34
.....	700	.....	80	700	.....	75	.....	4	.....	.....	1	5	35
.....	1,200	.....	250	1,200	.....	1.00	.....	5	.....	.....	1	6	36
.....	2,700	180	230	2,880	.....	1.00	.....	6	1	.....	1	8	37
.....	2,100	.....	225	2,100	.....	1.00	.....	6	1	.....	1	8	38
.....	780	.....	210	780	.....	1.00	.....	2	.....	.....	.....	2	39
.....	1,020	.....	215	1,020	.....	1.00	.....	3	.....	.....	.....	3	40
.....	700	.....	200	700	.....	1.00	.....	2	.....	.....	.....	2	41
.....	500	.....	110	500	.....	75	.....	2	.....	.....	.....	2	42
.....	450	.....	100	450	.....	75	.....	1	.....	.....	.....	1	43
.....	900	.....	100	900	.....	75	.....	2	.....	.....	.....	2	44
.....	350	.....	90	350	.....	75	.....	1	.....	.....	.....	1	45
.....	1,370	.....	200	1,370	.....	75	.....	3	.....	.....	1	4	46
.....	300	.....	145	300	.....	1.00	.....	1	.....	.....	.....	1	47
.....	120	.....	95	120	.....	1.00	.....	1	.....	.....	.....	1	48
.....	250	.....	160	250	.....	1.00	.....	1	.....	.....	.....	1	49
.....	100	.....	80	100	.....	1.00	.....	1	.....	.....	.....	1	50
.....	500	.....	100	500	.....	75	.....	2	.....	.....	.....	2	51
.....	400	.....	80	400	.....	75	.....	2	.....	.....	.....	2	52
.....	700	.....	110	700	.....	75	.....	2	.....	.....	.....	2	53
.....	1,500	.....	100	1,500	.....	75	.....	4	.....	.....	.....	4	54
.....	300	.....	100	300	.....	75	.....	1	.....	.....	.....	1	55
.....	300	.....	90	300	.....	75	.....	1	.....	.....	.....	1	56
.....	720	.....	125	720	.....	75	.....	2	.....	.....	.....	2	57
.....	500	.....	120	500	.....	75	.....	2	.....	.....	.....	2	58
.....	1,270	.....	185	1,270	.....	75	.....	3	.....	.....	1	4	59
.....	640	.....	140	640	.....	75	.....	2	.....	.....	.....	2	60
.....	800	.....	155	800	.....	75	.....	2	.....	.....	.....	2	61
.....	1,480	.....	180	1,480	.....	75	.....	3	.....	.....	.....	3	62
.....	820	.....	150	820	.....	75	.....	3	.....	.....	.....	3	63
.....	800	.....	150	800	.....	75	.....	3	.....	.....	.....	3	64
18,790	77,152	17,112	....	644,806	1,594	.....	.....	989	156	50	126	1,301	
.....	.....	.....	156	.....	.....	$0.59	$0.49	.....	.....	.....	.....	.....	

Hancock County—Third District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Merideth Bros.	Augusta	3,055	3,055	.....	$1 50	$4,583
2	George Willey	"	350	350	.....	1 50	525
3	J. W. Marks	"	480	480	.....	1 50	720
4	L. Bennett	"	500	500	.....	1 50	750
5	S. Jones	"	270	270	.....	1 50	405
	Totals	.....	4,655	4,655	.....	.....	$6,983
	Averages	.....	.....	.....	.....	$1 50	.....

Hancock County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	.....	.....	275	3,055	.....	$1.00	.....	13	.....	....	2	15	1
.....	350	.....	150	350	.....	1.00	.....	2	.....	....	1	3	2
.....	480	.....	165	480	.....	1.00	.....	2	.....	....	1	3	3
.....	500	.....	160	500	.....	1.00	.....	3	.....	....	1	4	4
.....	270	.....	110	270	.....	1.00	.....	2	.....	....	1	3	5
.....	1,600	.....	860	4,655	.....	$1.00	.....	22	.....	....	6	28	
.....	.....	.....	172	.....	.....	.....	.....	.....	.....	....	....	.....	

McDonough County—Third District—1901.

Number.	Name of Operater.	Postoffice Address of Mine.	Output—Tons. Total.	Lump.	Other grades.	Average value of lump coal at the mine.	Aggregate value of total product.
1	Reppetoe & Rundle	Colchester	10,333	8,687	1,646	$1.65	$15,702
2	Stanton Coal Co	"	13,550	10,053	3,497	1.65	18,701
3	R. Laitz	"	155	155		1.50	233
4	Isaac Stone	"	120	120		1.50	180
5	Wm. Martin	"	150	150		1.50	225
6	Wm. Hodgon	"	600	600		1.50	900
7	Wm. Robinson	"	900	900		1.50	1,350
8	F. M. Haines	"	140	140		1.50	210
9	George Foster	"	520	520		1.50	780
10	M. McClure	"	954	954		1.50	1,431
11	Wm. Williams	"	1,500	1,500		1.50	2,250
12	J. Zimmerman	"	750	750		1.50	1,125
13	G. Polonus	"	400	400		1.50	600
14	Wm. Kipling	"	650	650		1.50	975
15	Wm. Dickerson	"	200	200		1.50	300
16	Joseph Bunt	"	400	400		1.50	600
17	Ely Hillard	"	300	300		1.50	450
18	Lewis Atkinson	"	180	180		1.50	270
19	O. Baird & Son	"	1,160	1,160		1.50	1,740
20	Lewis Lewis	"	450	450		1.50	675
21	Alla Vauter	"	975	975		1.50	1,462
22	Chas. Atkinson	"	1,500	1,500		1.50	2,250
23	Wm. Ennis	"	200	200		1.50	300
24	Amos Eben	"	450	450		1.50	675
25	John Nee	"	1,700	1,700		1.50	2,550
26	G. Smith	"	200	200		1.50	300
27	James Whalen	"	220	220		1.50	330
28	M. Humes	"	550	550		1.50	825
29	John McCord	"	140	140		1.50	210
30	John Wilson	"	1,200	1,200		1.50	1,800
31	Wash Entwertle	"	220	220		1.50	330
32	Hillery Bros	"	500	500		1.50	750
33	John Berry	Macomb	1,840	1,840		1.50	2,760
34	Wm. Porter & Son	"	360	360		1.50	540
35	Simeon Kosch	"	200	200		1.50	300
36	Dull Bros	Tennessee	1,450	1,450		1.50	2,175
37	McKintosh & Postal	Industry	650	650		1.50	975
38	J. Gilligan	"	415	415		1.50	623
39	Wm. Stoneking	"	120	120		1.50	180
40	Wm. Baker	"	220	220		1.50	330
41	Thos. Wilson & Son	Blandensville	1,080	1,080		1.50	1,620
42	Frank Taylor	"	1,200	1,200		1.50	1,800
43	Wm. Eddington	Macomb	750	750		1.50	1,125
44	S Lamborn	Doddsville	210	210		1.50	315
45	Myers & Wilkenson	La Harpe	1,000	1,000		1.50	1,500
46	R. Daugherty	Table Grove	280	280		1.50	420
	Totals		51,042	45,899	5,143		$75,145
	Averages					$1.561	

Mines in 1900, 51.
New mines, 1.
Abandoned mines, 6.
Mines in 1901, 46.

McDonough County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	.....	175	130	10,333	.....	$1.00	.....	60	3	3	4	70	1
.....	.....	705	200	13,550	.....	1.00	.....	45	1	....	4	50	2
.....	155	.....	70	155	.....	1.00	.....	2	.....	....	....	2	3
.....	120	.....	100	120	.....	1.00	.....	1	.....	....	....	1	4
.....	150	.....	100	150	.....	1.00	.....	2	.....	....	....	2	5
.....	600	.....	170	600	.....	1.00	.....	3	.....	....	....	3	6
.....	900	.....	180	900	.....	1.00	.....	4	.....	....	....	4	7
.....	140	.....	65	140	.....	1.00	.....	2	.....	....	....	2	8
.....	520	.....	200	520	.....	1.00	.....	2	.....	....	....	2	9
.....	954	.....	210	954	.....	1.00	.....	4	.....	....	....	4	10
.....	1,500	.....	240	1,500	.....	1.00	.....	5	.....	....	1	6	11
.....	750	.....	230	750	.....	1.00	.....	3	.....	....	....	3	12
.....	400	.....	160	400	.....	1.00	.....	2	.....	....	....	2	13
.....	650	.....	200	650	.....	1.00	.....	3	.....	....	....	3	14
.....	200	.....	50	200	.....	1.00	.....	3	.....	....	....	3	15
.....	400	.....	100	400	.....	1.00	.....	3	.....	....	....	3	16
.....	300	.....	80	300	.....	1.00	.....	3	.....	....	....	3	17
.....	180	.....	75	180	.....	1.00	.....	2	.....	....	....	2	18
.....	1,160	.....	210	1,160	.....	1.00	.....	4	.....	....	....	4	19
.....	450	.....	190	450	.....	1.00	.....	2	.....	....	....	2	20
.....	975	.....	160	975	.....	1.00	.....	5	.....	....	....	5	21
.....	1,500	.....	200	1,500	.....	1.00	.....	7	.....	....	1	8	22
.....	200	.....	150	200	.....	1.00	.....	1	.....	....	....	1	23
.....	450	.....	120	450	.....	1.00	.....	3	.....	....	....	3	24
.....	1,700	.....	200	1,700	.....	1.00	.....	6	.....	....	1	7	25
.....	200	.....	70	200	.....	1 00	.....	2	.....	....	....	2	26
.....	220	.....	90	220	.....	1.00	.....	2	.....	....	....	2	27
.....	550	.....	90	550	.....	1.00	.....	5	.....	....	....	5	28
.....	140	.....	115	140	.....	1.00	.....	1	.....	....	....	1	29
.....	1,200	.....	190	1,200	.....	1.00	.....	5	.....	....	....	5	30
.....	220	.....	175	220	.....	1.00	.....	1	.....	....	....	1	31
.....	500	.....	180	500	.....	1.00	.....	2	.....	....	....	2	32
.....	1,840	.....	240	1,840	.....	1.00	.....	6	.....	....	....	6	33
.....	360	.....	130	360	.....	1.00	.....	2	.....	....	....	2	34
.....	200	.....	80	200	.....	1.00	.....	2	.....	....	....	2	35
.....	1,450	.....	180	1,450	.....	1.00	.....	5	.....	....	....	5	36
.....	650	.....	190	650	.....	1.00	.....	3	.....	....	....	3	37
.....	415	.....	180	415	.....	1.00	.....	2	.....	....	....	2	38
.....	120	.....	100	126	.....	1.00	.....	1	.....	....	....	1	39
.....	220	.....	100	220	.....	1.00	.....	2	.....	....	....	2	40
.....	1,080	.....	180	1,080	.....	1.00	.....	5	.....	....	....	5	41
.....	1,200	.....	175	1,200	.....	1.00	.....	6	.....	....	....	6	42
.....	750	.....	150	750	.....	1.00	.....	4	.....	....	....	4	43
.....	210	.....	95	210	.....	1.00	.....	2	.....	....	....	2	44
.....	1,000	.....	200	1,000	.....	1.00	.....	4	.....	....	....	4	45
.....	280	.....	112	280	.....	1.00	.....	2	.....	....	....	2	46
.....	27,159	880	....	51.042	.....	.....	.....	241	4	3	11	259	
.....	.....	.....	148	.....	.....	$1.00	.....	.....	.....	....	....	.....	

Menard County—Third District—1901.

Number.	Name of Operator.	Postoffice Address of Mines.	Output—Tons. Total.	Lump.	Other grades.	Average value of lump coal at the mine.	Aggregate value of total product.
1	Chi. & K. City C. C., Hilltop	Petersburg	68,000	.....	68,000	.....	$ 57,800
2	Wabash Coal Co., No. 2	Athens	91,451	45,600	45,851	$1.10	84,768
3	Tallula Coal Co	Tallula	19,674	9,392	10,282	1.40	20,532
4	Wm. Parkin & Son	Sweetwater	3,201	3,378	323	1.75	6,397
5	South Mountain C. Co., No. 1	Petersburg	20,580	9,164	11,416	1.25	20,293
6	Wm. Denton	"	1,524	983	541	1.50	2,202
7	J. E. Atterberry	Tice	660	660	.....	1.25	825
8	Joseph Mullegrahm	Petersburg	1,244	1,244	.....	1.50	1,866
9	Junction Coöp'tive Coal Co.	"	5,347	2,326	3,021	1.55	6,064
10	Greenview Coal & M. Co	Greenview	111,675	84,022	27,653	1.04	105,580
11	Charles O'Neill	Petersburg	1,200	1,200	.....	1.62	1,944
12	Athens Mining Co	Athens	68,721	36,682	32,039	1.11	63,335
	Totals		393,777	194,651	120,915	.....	$371,596
	Averages		.....	.....	.....	$1.12	.....

Mines in 1900, 10.
New mines, 2.
Abandoned mines, none.
Mines in 1901, 12.

Peoria County—Third District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons. Total.	Lump.	Other grades.	Average value of lump coal at the mine.	Aggregate value of total product.
1	Newsam Bros	Kingston	87,959	55,415	32,544	$1.25	$83,263
2	Newsam Bros	Wolcott	52,520	37,167	15,353	1.25	55,150
3	Newsam Bros	Hanna City	30,640	19,306	11,336	1.25	29,007
4	Newsam Bros	Star	31,611	19,915	11,696	1.25	29,875
5	Sholl Bros., No. 3	Peoria	85,000	39,000	46,000	1.25	94,450
6	Royster & Zeigler, Empire	"	36,255	20,825	15,430	1.10	33,175
7	P. Grant & Son, Excelsior	"	34,427	22,072	12,355	1.17	33,031
8	Collier Coöp. Coal Co	Bartonville	27,858	7,549	20,309	.98	26,692
9	Sholl Bros., Jr	"	9,387	1,872	7,515	1.45	11,818
10	Howarth & Taylor Bros	Edwards	31,326	25,930	5,396	.90	24,416
11	Cusack & Edwards	"	5,950	5,450	500	1.15	6,368
12	Elmwood Coal Co	Elmwood	8,703	8,110	593	1.50	12,387
13	I. Wantling & Son, Bluefly	Pottstown	28,000	26,420	1,580	1.25	34,210
14	Third Vein Coal Co	Orch'rd Mines	3,600	3,240	360	1.50	5,031
15	James Walker	Mapleton	11,901	5,560	6,341	1.15	11,613
16	Jefford & Bro	Kingston M's.	3,689	3,689	.....	1.25	4,611
17	Walschlag Coöp. Coal Co	Peoria	50,364	33,416	16,948	1.43	61,023
18	W. E. Foley	Mapleton	14,000	10,000	4,000	1.10	13,150
19	C. B. Kramm & Bro	Edwards	34,057	25,770	8,287	1.00	27,842

Menard County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
7,000	.....	2,500	220	68,000	.....	$0.49.7	.....	60	14	....	8	82	1
.....	6,500	2,051	240	91,451	.....	.49.7	.....	110	20	3	14	147	2
.....	3,165	720	155	19,674	.....	.49.7	.....	25	5	3	7	40	3
.....	3,601	100	200	3,701	.....	.60	.....	6	2	....	1	9	4
.....	8,624	1,243	215	20,580	.....	.49.7	.....	21	4	1	4	30	5
.....	1,424	100	150	1,524	.....	.60	.....	3	.....	....	2	5	6
.....	660	.....	120	660	.....	.60	.....	2	.....	....	1	3	7
.....	1,144	100	147	1,244	.....	.60	.....	3	.....	....	1	4	8
.....	2,018	258	160	5,347	.....	.49.7	.....	15	3	....	4	22	9
.....	4,077	13,137	220	111,675	.....	.49.7	.....	114	14	....	12	140	10
.....	1,200	.....	165	1,200	.....	.60	.....	2	.....	....	1	3	11
.....	1,000	1,736	170	53,358	15,363	.49.7	$0 45	101	12	4	12	129	12
7,000	33,413	21,945	....	378,414	15,363	.....	.....	462	74	11	67	614	
.....	.....	.....	180	.....	.....	$0 49.7	.....	.....	.....	....	....	.....	

Peoria County, 1901—Continued.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	1,400	2,920	140	87,959	.....	$0.56	.....	85	20	....	20	125	1
.....	1,074	1,812	150	52,520	.....	.56	.....	60	7	3	9	79	2
.....	3,000	500	115	30,642	.....	.56	.....	28	8	1	7	44	3
.....	100	500	118	31,611	.....	.56	.....	25	8	1	7	41	4
.....	125	925	250	85,000	.....	.56	.....	75	10	2	6	93	5
.....	.....	780	180	36,255	.....	.56	.....	50	5	1	6	62	6
1,800	.....	1,100	200	34,427	.....	.56	.....	35	6	6	5	52	7
.....	.....	486	207	27,858	.....	.56	.....	30	4	....	5	39	8
.....	.....	438	219	9,387	.....	.56	.....	16	2	....	2	20	9
.....	50	250	250	31,326	.....	.56	.....	40	6	....	7	53	10
.....	200	.....	200	5,950	.....	.56	.....	7	1	....	1	9	11
6,470	1,828	405	135	8,703	.....	.76	.....	30	7	2	14	53	12
.....	.....	500	204	28,000	.....	.76	.....	55	5	....	5	65	13
.....	700	460	300	3,600	.....	.76	.....	17	2	3	4	26	14
.....	125	115	185	11,901	.....	.56	.....	15	2	....	4	21	15
.....	.....	.....	105	3,689	.....	.56	.....	9	2	1	2	14	16
.....	.....	742	240	50,364	.....	.56	.....	38	5	1	5	49	17
.....	.....	200	200	14,000	.....	.56	.....	20	2	....	2	24	18
.....	120	985	198	34,057	.....	.56	.....	55	9	2	7	73	19

Peoria County, 1901—Continued.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
20	Martin & Lane	Peoria	1,400	1,400		$1.32	$ 1,848
21	Adams Coal Co	"	2,000	2,000		1.25	2,500
22	John Birdois	"	2,435	2,435		1.25	3,044
23	Yost & Rumple	"	1,000	1,000		1.25	1,250
24	Fred Martin	"	720	720		1.25	900
25	Schneider & Ennis	"	1,900	1,900		1.25	2,375
26	F. P. Schmidt & Sons	"	6,324	6,324		1.25	7,905
27	White Coal Co	Bartonville	2,262	2,262		1.25	2,828
28	H. Vicary	Pottstown	2,100	2,100		1.25	2,625
29	Ogden Hays	Mapleton	400	400		1.25	500
30	S. Miller	"	3,200	3,200		1.25	4,000
31	D. B. Roberts	"	2,400	2,400		1.25	3,000
32	Lawrence Rigby	Princeville	4,000	4,300		1.50	6,450
33	C. Berry	Monica	560	560		1.25	700
34	Oscar Graves	Duncan	720	720		1.50	1,080
35	W. H. Poole	Kickapoo	1,000	1,000		1.50	1,500
36	George Rattlebach	Brimfield	800	800		1.50	1,200
37	George Mulvaney	"	760	760		1.50	1,140
38	H. Durant	"	500	500		1.50	750
39	H. Goodwin	Mapleton	1,600	1,600		1.25	2,000
40	Hamilton Bros	"	600	600		1.25	750
41	Treasure Coal Co	Bartonville	3,600	3,600		1.25	4,500
42	Sneddon & Hibbard	Peoria	6,800	6,800		1.25	8,500
43	Johnson & Lane	"	360	360		1.25	450
44	Wm. Clarkson	Edwards	300	300		1.25	375
45	C. Snider	"	200	200		1.25	250
46	Wm. Clark	Oak Hill	250	250		1.25	313
47	Wolford & Cing	"	350	350		1.25	438
48	Wm. Johnson	Hanna	400	400		1.25	500
49	Joseph Marie	Pottstown	250	250		1.25	313
50	James Fash	Peoria	350	350		1.25	438
51	Charles Abys	Laura	400	400		1.25	500
52	Charles Hevins	"	300	300		1.25	375
53	Wm. Black	Smithville	340	340		1.25	425
54	Charles Kingsley	Edwards	250	250		1.25	313
55	R. Clarkson	Alta	200	200		1.25	250
56	Geo. Pargetter	Pottstown	250	250		1.25	313
57	Daniel Sanders	Glasford	400	400		1.25	500
58	Mahn Bros	Peoria	3,000	3,000		1.30	3,900
59	Winters Coal Co	Bartonville	15,494	5,164	10,330	1.50	20,659
60	Ball Coal Co	"	3,505	2,891	614	1.35	4,222
61	George Keller	"	4,921	4,921		1.50	7,382
62	Vicary Bros	Peoria	28,340	22,715	5,625	1.25	29,519
63	German Coal Co	Mapleton	16,092	4,190	11,902	1.40	20,613
	Totals		710,582	465,568	710,582		$750,513
	Averages					$1 23	

Mines in 1900, 64.
New mines, 17.
Abandoned mines, 18.
Mines in 1901, 63.

Peoria County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	1,400	.....	250	1,400	.....	$0.80	.....	3	.....	....	....	3	20
.....	2,000	.....	200	2,000	.....	.80	.....	5	.....	....	1	6	21
.....	2,435	.....	200	2,435	.....	.80	.....	5	.....	....	1	6	22
.....	1,000	.....	250	1,000	.....	.75	.....	2	.....	....	....	2	23
.....	720	.....	130	720	.....	.75	.....	3	.....	....	....	3	24
.....	1,900	.....	200	1,900	.....	.75	.....	4	.....	....	1	5	25
.....	6,324	.....	190	6,324	.....	.75	.....	14	.....	....	2	16	26
.....	2,262	.....	226	2,262	.....	.75	.....	5	.....	....	1	6	27
.....	2,100	.....	250	2,100	.....	.75	.....	5	.....	....	1	6	28
.....	400	.....	150	400	.....	.75	.....	1	.....	....	....	1	29
.....	3,200	.....	280	3,200	.....	.75	.....	6	.....	....	1	7	30
.....	2,400	.....	200	2,400	.....	.75	.....	4	.....	....	1	5	31
.....	4,008	360	275	4,300	.....	.87	.....	10	.....	....	2	12	32
.....	560	.....	150	560	.....	.75	.....	2	.....	....	....	2	33
.....	720	.....	100	720	.....	.80	.....	3	.....	....	....	3	34
.....	1,000	.....	150	1,000	.....	.80	.....	4	.....	....	1	5	35
.....	800	.....	150	800	.....	.75	.....	3	.....	....	1	4	36
.....	760	.....	150	760	.....	.75	.....	3	.....	....	1	4	37
.....	500	.....	100	500	.....	.75	.....	3	.....	....	....	3	38
.....	1,600	.....	160	1,600	.....	.80	.....	4	.....	....	1	5	39
.....	600	.....	120	600	.....	.80	.....	2	.....	....	....	2	40
.....	3,600	.....	250	3,600	.....	.80	.....	10	.....	....	1	11	41
.....	6,500	300	280	6,800	.....	.80	.....	10	.....	....	1	11	42
.....	360	.....	90	360	.....	.80	.....	2	.....	....	....	2	43
.....	300	.....	100	300	.....	.80	.....	1	.....	....	....	1	44
.....	200	.....	90	200	.....	.80	.....	1	.....	....	....	1	45
.....	250	.....	110	250	.....	.80	.....	1	.....	....	....	1	46
.....	350	.....	100	350	.....	.80	.....	2	.....	....	....	2	47
.....	400	.....	140	400	.....	.80	.....	1	.....	....	...	1	48
.....	250	.....	120	250	.....	.80	.....	1	.....	....	....	1	49
.....	350	.....	135	350	.....	.80	.....	1	.....	....	....	1	50
.....	400	.....	100	400	.....	.80	.....	2	.....	....	....	2	51
.....	300	.....	90	300	.....	.80	.....	2	.....	....	....	2	52
.....	340	.....	150	340	.....	.80	.....	1	.....	....	....	1	53
.....	250	.....	100	250	.....	.80	.....	1	.....	....	....	1	54
.....	200	.....	120	200	.....	.80	.....	1	.....	....	....	1	55
.....	250	.....	150	250	.....	.80	.....	1	.....	....	....	1	56
.....	400	.....	100	400	.....	.80	.....	2	.....	....	....	2	57
.....	3,000	.....	200	3,000	.....	.80	.....	5	.....	1	1	7	58
.....	14,894	600	274	15,494	.....	.56	.....	14	1	....	1	16	59
.....	3,400	105	183	3,505	.....	.75	.....	6	1	....	1	8	60
.....	4,800	121	240	4,921	.....	.75	.....	8	1	....	1	10	61
.....	7,250	250	200	28,340	.....	.56	.....	25	5	5	3	38	62
1,101	101	400	213	16,092	.....	.56	.....	17	3	....	2	22	63
9,371	93,548	15,194	....	710,582	.....	.....	.....	896	122	29	144	1,191	
.....	.....	.....	175	.....	.....	$0 59	.....	.....	.....	.....	.....	.....	

Schuyler County—Third District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Wm. Kerr	Rushville	3,640	3,640		$1.25	4,550
2	Wm. Cummings	"	2,725	2,725		1.25	3,406
3	D. Lawler	"	800	800		1.25	1,000
4	R. Strong	Pleasant View	700	700		1.25	875
5	Fred Croxton	"	550	550		1.25	688
6	Velpo Roosa	"	150	150		1.25	188
7	George Montooth	Ray	320	320		1.50	480
8	Perkins & Simpson	"	550	550		1.50	825
9	Rufus Porter	"	860	860		1.50	1,290
10	Wm. Harris	"	700	700		1.50	1,050
11	Wm. Cagle	Frederick	320	320		1.50	480
12	H. Wetmore	"	640	640		1.50	960
13	Jacob Brackofen	Littleton	540	540		1.50	810
14	John Cagle	"	525	525		1.50	788
15	Orrie Alexander	Huntsville	480	480		1.50	720
16	Alfred Nasley	"	750	750		1.50	1,125
17	J. C. West	"	240	240		1.50	360
18	George Edwards	"	200	200		1.50	300
	Totals		14,690	14,690			19,895
	Averages					$1.354	

Mines in 1900, 17.
New mines, 5.
Abandoned, 4.
Mines in 1901, 18.

Schuyler County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	3,540	100	200	3,640	.....	$0.75	.....	8	.....	....	1	9	1
.....	2,650	75	185	2,725	.....	.75	.....	5	.....	....	....	5	2
.....	800	.....	125	800	.....	.75	.....	3	.....	....	....	3	3
.....	700	.....	110	700	.....	.75	.....	3	.....	....	....	3	4
.....	550	.....	100	550	.....	.75	.....	3	.....	....	....	3	5
.....	150	.....	50	150	.....	.75	.....	2	.....	....	....	2	6
.....	320	.....	90	320	.....	1.00	.....	3	.....	....	....	3	7
.....	550	.....	100	550	.....	1.00	.....	4	.....	....	....	4	8
.....	860	.....	190	860	.....	1.00	.....	4	.....	....	....	4	9
.....	700	.....	200	700	.....	1.00	.....	3	.....	....	....	3	10
.....	320	.....	65	320	.....	1.00	.....	4	.....	....	....	4	11
.....	640	.....	180	640	.....	1.00	.....	3	.....	....	....	3	12
.....	540	.....	165	540	.....	1.00	.....	3	.....	....	....	3	13
.....	525	.....	160	525	.....	1.00	.....	3	.....	....	....	3	14
.....	480	.....	150	480	.....	1.00	.....	3	.....	....	....	3	15
.....	750	.....	170	750	.....	1.00	.....	4	.....	....	....	4	16
.....	240	.....	100	240	.....	1.00	.....	2	.....	....	....	2	17
.....	200	.....	80	200	.....	1.00	.....	2	.....	....	....	2	18
.....	14,515	175	....	14,690	.....	.....	.....	62	.....	....	1	63	
.....	.....	.....	134	.....	.....	$0.854	.....	.....	.....	....	....	.....	

Tazewell County—Third District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	A. G. Cummings	E. Peoria	16,220	12,976	3,244	$1.31	18,199
2	G. Gablehauser	"	2,350	2,000	350	1.25	2,588
3	Manhattan Coal Co	"	3,000	2,000	1,000	1.25	3,125
4	E. Peoria Coal Co	"	13,279	7,021	6,258	1.12	12,610
5	Progressive Coal Co	"	12,000	6,000	6,000	1.15	11,650
6	Backing Bros	"	5,000	2,500	2,500	1.25	5,250
7	Edward Little	Peoria	25,784	.....	25,784	.....	25,784
8	Phoenix Coal Co	"	29,384	18,299	11,085	1.15	31,032
9	Hawley Coal Co	Pekin	10,494	.....	10,494	.....	11,543
10	King & Pfanz	"	3,900	2,000	1,900	1.40	4,040
11	Bahlander Bros	"	5,300	.....	5,300	.....	7,261
12	Ubben Coal Co	"	13,800	.....	13,800	.....	15,180
13	Wm. F. Doering	E. Peoria	3,885	3,885	.....	1.37	5,322
14	W. Cruickshanks & Son	"	6,654	4,991	1,663	1.35	7,403
15	Grant Bros	Pekin	10,559	5,000	5,559	1.33	13,210
	Total	.....	161,609	66,672	94,937	.....	174,200
	Averages	.....	.....	.....	.....	$1.236	.....

Mines in 1900, 15.
New mines, 1.
Abandoned, 1.
Mines in 1901, 15.

Tazewell County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Supplied to locomotives at the mine.	Sold to local trade.	Consumed and wasted at the mine.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	15,855	365	200	16,220	.....	$0.56	.....	29	1	4	3	37	1
.....	2,350	.....	250	2,350	.....	.84	.....	6	1	1	1	9	2
.....	2,750	250	150	3,000	.....	.56	.....	5	1	....	1	7	3
.....	5,539	1,100	190	13,279	.....	.56	.....	22	4	....	3	29	4
.....	11,500	500	251	12,000	.....	.56	.....	12	2	....	2	16	5
.....	4,750	250	182	5,000	.....	.56	.....	7	1	....	1	9	6
.....	.....	604	195	25,784	.....	.56	.....	25	6	....	4	35	7
.....	.....	400	193	29,384	.....	.56	.....	40	5	....	5	50	8
.....	100	394	229	10,494	.....	.71	.....	14	3	....	2	19	9
.....	3,600	300	200	3,900	.....	.71	.....	5	2	1	2	10	10
.....	5,000	300	175	5,300	.....	.71	.....	7	.....	....	1	8	11
.....	.....	300	240	13,800	.....	.71	.....	22	2	....	2	26	12
.....	3,885	.....	215	3,885	.....	.84	.....	7	1	1	1	10	13
.....	6,354	300	200	6,654	.....	.56	.....	9	1	....	2	12	14
.....	10,200	359	195	10,559	.....	.71	.....	13	3	....	2	18	18
.....	71,883	5,422	....	161,609	.....	.....	.....	223	33	7	32	295	
.....	.....	.....	204	.....	.....	$0.602	.....	.....	.....	....	....	.....	

Recapitulation by Counties—

Counties.	Number of mines.	Number of shipping mines.	No. of mines in local trade.	Total Tons Produced.	Average Value Per Ton at the Mine.						Aggregate value of total product.	Employes.		
					Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Waste		Number of miners.	All other employés.	Total.
Cass	2	..	2	2,450	$1.75	.....	.....	.....	.....	.....	$ 4,288	7	2	9
Fulton	64	18	46	646,400	1.222	$0.999	.....	$0.752	$0.385	$0.364	665,129	969	332	1,301
Hancock	5	1	4	4,655	1.50	.....	.....	.....	.....	.....	6,983	22	6	28
McDonough	46	2	44	51,042	1.561	1.50	.....	.90	.25	.25	75,105	241	18	259
Menard	12	7	5	393,777	1.122	.873	$1.284	.926	.511	.46	371,591	462	152	614
Peoria	63	20	43	710,582	1.228	1.088	.....	.684	.446	.355	750,513	896	295	1,191
Schuyler	18	..	18	14,690	1.354	.....	.....	.....	.....	.....	19,895	62	1	63
Tazewell	15	5	10	161,609	1.237	1.068	.....	1.00	.365	.544	4,201	223	72	295
Totals	225	53	172	1,985,205	.....	.....	.....	.....	.....	.....	$2,967,705	2,882	878	3,760
Averages	...	...	...	.....	$1.226	$0.968	$1.284	$0.764	$0.431	$0.399	.....	.....	.....	.....

Whole number of mines reported in 1900, 233.
Number of new mines opened during the year, 42.
Number of mines exhausted or abandoned during the year, 50.
Whole number of mines reported for 1901, 225.

Third District—1901.

Disposition of Output—Tons.				Average No. of days in operation.	How Mined—Tons.		Prices Paid Per Ton For		Number of kegs of powder used for blasting coal.	Steam Boilers	
Loaded on cars for shipment.	Supplied to locomotives at mines.	Sold to local trade.	Consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.		No. of mines using.	Number in use.
.....	.....	2,450	.....	178	2,450	.....	$0.875	.....	116	1	1
533,346	18,790	77,152	17,112	156	644,806	1,594	0.56	$0.49	25,148	22	39
3,055	.....	1,600	.....	172	4,655	.....	1.00	.....	.....	....	....
23,003	.....	27,159	880	148	51,042	.....	1.00	.....	.....	2	....
331,419	7,000	33,413	21,945	180	378,414	15,363	0.497	0.45	15,322	9	25
592,469	9,371	93,548	15,194	175	710,582	.....	0.572	.....	31,542	24	39
.....	.....	14,515	175	134	14,690	.....	0.854	.....	429	2	2
84,304	.....	71,883	5,422	204	161,609	.....	0.602	.....	7,118	13	17
1,567,596	35,161	321,720	60,728	.....	1,968,248	16,957	.....	.....	79,675	73	123
.....	.....	.....	.....	163	.....	.....	*$0.555	$0.455	.....	....	....

* Based on 1,749,822 tons.

Screened coal—Cass county, 2,450 tons. .875 cents per ton.
Fulton county, 67,628 " .805 " "
Hancock county, 4,655 " 1.00 " "
McDonough county, 51,042 " 1.00 " "
Menard county, 8,329 " .60 " "
Peoria county, 63,397 " .78 " "
Schuyler county, 14,690 " .854 " "
Tazewell county, 6,235 " .84 " "

Total.....218,426 tons. .845 cents per ton.

FOURTH INSPECTION DISTRICT—1901.

Counties: Christian, Logan, McLean, Macon, Shelby, Vermilion, Woodford.

JOHN E. WILLIAMS, *Inspector*, Danville.

HON. DAVID ROSS, *Secretary*,
State Bureau of Labor Statistics, Springfield, Ill.

SIR:—In compliance with section 12 of the mining law, defining the duties of inspectors of mines, I have the honor to submit to you the eighteenth annual report of the coal mines of the Fourth Inspection District for the year ended June 30, 1901. This report consists of statistical tables, showing the number of mines operated in each county during the year, also the shipping mines and those engaged in local trade; the number of men employed; the total output of the various grades of coal and the value of the same; the prices received therefor as well as the cost of mining; the depth of the different mines; the nature of the opening, whether shaft, slope or drift; the methods of raising the coal to the surface; the workings, whether room and pillar or long-wall; the thickness of the seams and the geological number of the same; the number of steam boilers in use; the number of fatal and non-fatal accidents and the causes thereof; the number of children left fatherless and the number of wives made widows; the number of kegs of powder used in producing the coal; the number of new mines and those abandoned; the number of mines operated by machines, with the number of machines used, and the amount of coal cut by such machines; also the amount of coal produced by hand mining.

The following summary presents the principal facts contained in the different schedules:

Number of counties producing coal	7
Number of mines	81
Number of new mines	1
Number of abandoned mines	3
Number of shipping mines	33
Number of Local mines	48
Total tons of coal produced in the district	3,253,160
Tons of lump coal	995,415
Tons of mine run coal	1,751,321
Tons of egg coal	24,532
Tons of nut coal	183,693
Tons of pea or screenings	188,801
Tons of slack or waste at the mine	109,398
Aggregate value of total product	$3,323,727
Total number of employes	6,950
Total tons mined by hand	3,183,222
Total tons mined by machines	69,938
Number of mines using machines	3

Number of machines in use	11
Number of kegs of powder used in blasting coal	68,690
Number of steam boilers at the mines	139
Number of fatal accidents	21
Number of non-fatal accidents	108
Number of tons of coal produced for each life lost	154,902
Number of tons of coal produced for each person injured	30,122

New Mines—The Christian County Coal Co., Taylorville, which is composed of local capitalists, has completed sinking one of the largest mines in this State, and it is being equipped with the very best machinery obtainable, for the purpose of making it a large producer, which it will be when fully developed. The company is engaged in sinking an escapement shaft at the present time.

Abandoned Mines—There have been several small mines abandoned in the district, but the parties who operated them have generally opened up other mines in the same locality; this does not, however, materially change the production of coal in the district.

Fatal Accidents—The total number of fatal accidents reported this year is three less than reported for the preceding year; taking into consideration that the tonnage is nearly as great as last year, it is a very gratifying result.

July 5, 1900, Charles Kouloski, miner, aged 60 years, single, employed in the mine of the Moweaqua Coal & Mining Co., Moweaqua, Shelby county, was killed by a fall of roof. The accident happened at about 10:30 a. m., in room No. 13, fifth north entry, west side. He had fired a shot the night before that knocked out nearly all the timbers in the room, and while engaged in replacing them the roof, which was full of slips and "nigger-heads," fell and caught him, killing him instantly.

July 9, 1900, Charles Frank, miner, aged 28 years, single, was killed in room No. 12, second west northwest entry, at the Himrod Coal Co.'s mine, Westville, Vermilion county. Deceased knew the rock was loose and was in the act of timbering it when it fell, with the above result.

July 16, 1900, William Klouza, miner, aged 24 years, single, was killed by a fall of rock in room No. 25, forth west entry, at the Brookside Coal Co.'s mine, Grape Creek.

August 30, 1900, William Hafner, miner, aged 20 years, single, was killed in room No. 15, ninth north entry of the Catlin Coal Co.'s mine, Catlin, Vermilion county, by a fall of roof. Deceased well knew the dangerous condition of the roof, as his attention had been called to it before the accident happened, as the mine examiner had marked it in several places. He lived with his parents in south Danville.

September 15, 1900, Charles Koehler, timberman, aged 35 years, married, was killed in the Citizen's Coal Co.'s mine at Lincoln, Logan county, by a piece of cap-rock falling on him. Deceased had worked in this mine for the past 15 years. He left a widow and four children.

September 26, 1900, John Butkis, miner, aged 30 years, married, was killed by a fall of roof in room No. 15, ninth south entry of the Kelleyville Coal

Co.'s No. 2 mine, Westville, Vermilion county. Just how the accident happened no one knows, as he was away from his working place at the time of the accident. He left a widow and one child.

October 24, 1900, Hugh Donohue, miner, single, aged 35 years, was killed by a fall of roof in room No. 10, fifth west entry, south side, in the mine of the Consolidated Coal Co. at Fairmount, Vermilion county. At the time of the accident deceased was engaged in wedging up a piece of bottom coal, when the roof gave way suddenly, killing him; there was a prop under the rock, but it wasn't placed sufficiently near the center to hold it up. He worked by himself, and it is supposed that the accident happened about 10:30 a. m. The body was found about 2 p. m.

October 25, 1900, John Olson, motorman, aged 28 years, married, was killed on the main entry of the Kelleyville Coal Co.'s mine No. 3, Westville, Vermilion county. He was thrown from the motor and run over by the cars. Just how the accident happened no one fully knows, but it is presumed that he received an electric shock that caused him to fall. He left a widow and one child dependent.

November 5, 1900, William Lynch, driver, aged 22 years, single, was killed in the Pana Coal Co.'s mine, Pana, Christian county, by being crushed to death between two pit cars. How the accident happened no one knows; eyewitnesses say that the cars were running along very slowly, and there was ample room for him to get out of the way before being caught.

November 15, 1900, Mathew Hayes, miner, aged 38 years, was killed in the mine of the Westville Coal Co, at Danville, by a fall of rock. He leaves a widow.

November 19, 1900, William Wansher, miner, aged 54 years, married, was killed by falling coal in the mine of the Economy Coal Co. at Danville, Vermilion county. He was mining off a standing shot when the coal suddenly gave way, falling on him in such a manner as to cause death. He left a widow and five children dependent.

January 25, 1901, George Horwith, miner, aged 37 years, married, was killed in room No. 54, seventh south entry, east side of the Kellyville Coal Company's mine No. 2, Westville, Vermilion county, by flying coal. The miners working in the adjoining room had lighted a shot and had gone out to the mouth of room 54, shouting to deseased and his partner to get out of the way as they were going to fire; receiving no response they concluded that he (deceased) had fired his shot and gone home. When their shot went off it blew through the rib with the above result. He left a widow and five children.

January 31, 1901, Charles Foster, aged 50 years, top man, married, employed at the mine of the Assumption Coal & Mining Company, Assumption, Christian county, was killed by the kick of a horse. A part of his duties was to run the railroad cars to be loaded, this he did with the aid of a large horse; it appears that he thought the horse was not pulling as much as he should, he picked up a short board and began striking the animal, when the horse

kicked, striking Foster on the right jaw, resulting in his death about 45 minutes afterwards. He left a widow and four children living at Macon, Macon county.

January 31, 1901, Darius Lee miner, aged 30 years, single, was killed by flying coal in the Entre Nous Coal Company's mine, Muncie, Vermilion county. Deceased had lighted a shot in the entry and had retired to a safe distance. After waiting what he thought a sufficient time for the blast to explode, he went back to see what was wrong, just as he was in front of the place the shot exploded, killing him instantly.

March 28, 1901, John Coast, miner, aged 50 years, married, was killed in room 23, first west northwest entry, of the Himrod Coal Co.'s mine, Westville, Vermilion county, by a shot blowing through from room 22. It appears that he was making a break-through between the two rooms and did not think the pillar was as thin as it really was; when the shot exploded it blew through where he was standing, the coal striking him in such manner as to cause death. He leaves a family in Russia.

April 9, 1901, Charles Hall, driver. aged 23 years, married, employed in the Himrod Coal Co.'s mine, Westville, Vermilion county, was killed by being squeezed between a pit car and the rib of coal. It appears that his light went out just as the car left the track, and in trying to get out of danger he stepped on the wrong side and was caught by the car. He leaves a widow.

April 20, 1901, L. Striepke, miner, aged 40 years, married, was killed in the Kelleyville Coal Co.'s mine No. 2, by falling roof. He left a widow and two children.

May 6, 1901, Grant Towner, timberman, aged 31 years, married, employed in the mine of the Consolidated Coal Co., Fairmount, Vermilion county, was killed by falling roof. He was engaged in cutting a hole in the side of the rib for a crossbar, when the roof gave way, killing him instantly. He left a widow and one child.

May 15, 1901, Morris Clayton, miner, aged 35 years, married, working in the Kellyville Coal Co.'s mine No. 3, Westville, Vermilion county, was killed in room 39, first northeast entry, by falling roof. He was taken to St. Elizabeth's Hospital, where he died two days after the accident. He left a widow and one child.

January 17, 1901, Simon Jenkins, miner, aged 46 years, was killed in the Westville Coal Co.'s mine by falling rock at the working face of his room. He leaves a widow and one child.

June 23, 1901, Louis Donnelly, miner, aged 36 years, was killed in the Westville Coal Co.'s mine at Georgetown, by falling rock at the working face of the mine. He leaves a widow and one child.

Following will be found, tabulated, the fatal and non-fatal accidents, also the county schedules of the district.

All of which is most respectfully submitted.

JOHN E. WILLIAMS,

Danville. *State Inspector of Mines, Fourth District.*

Fatal Casualties—Fourth District—July 1, 1901.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widow.	Children.	Single.	Depend'nts	Cause of Accident.
1900										
July 5	Chas. Konloski	60	Miner	Moweaqua	..	..	..	1	..	Falling slate
9	Chas. Frank	28	"	Himrod	..	..	..	1	..	Falling rock
16	Wm. Klonza	24	"	Grape Creek	..	..	..	1	..	Falling rock
Aug. 30	Wm. Hafner	20	"	Catlin	..	..	..	1	..	Falling rock
Sep. 15	Chas. Koehler	35	Timberman.	Lincoln	1	1	4	..	5	Falling rock
26	Jno. Butkies	30	Miner	Westville	1	1	1	..	2	Falling rock
Oct. 24	Hugh Donohoe	35	"	Fairmount	..	..	..	1	..	Falling rock
25	Jno. Olson	28	Motorman	Westville	1	1	1	..	2	Fell from motor
Nov. 5	Wm. Lynch	22	Driver	Pana	..	..	..	1	..	Crushed by pit car
15	Mat Hayes	38	Miner.	Danville	1	1	..	..	1	Falling rock
19	Wm. Wansher	54	"	"	1	1	5	..	6	Falling coal
1901										
Jan. 25	Geo. Horwith	37	"	Westville	1	1	5	..	6	Premature blast
31	Chas. Foster	50	Topman	Assumption	1	1	4	..	5	Kick of horse
31	Darius Lee	30	Miner.	Muncie	..	..	..	1	..	Flying coal
Mar. 28	John Coast	50	"	Himrod	1	1	..	..	*	Flying coal
Apr. 9	Chas. Hall	23	Driver	"	1	1	..	..	1	Pit car and rib
20	L. Strepke	40	Miner	Westville	1	1	2	..	3	Falling roof
May 6	Grant Towner	31	Timberman.	Fairmount	1	1	1	..	2	Falling roof
15	Morris Clayton	35	Miner	Westville	1	1	1	..	2	Falling roof
Jan. 17	Simon Jenkins	46	"	Danville	1	1	1	..	2	Falling rock
June 23	Louis Donnelly	36	"	Georgetown	1	1	1	..	2	Falling rock
	Total	..			14	14	26	7	39	

* Family in Russia.

Recapitulation of Fatal Accidents—Fourth District—1901.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Assumption	1	Drivers	2	Crushed by pit cars	2	Assump. C. & M. Co.	1
Catlin	1	Miners	15	Falling rock	9	Brookside Coal Co	1
Danville	3	Motorman	1	Falling roof	3	Catlin Coal Co	1
Fairmount	2	Timbermen	2	Falling slate	1	Consolidated Coal Co	2
Georgetown	1	Topman	1	Falling coal	1	Citizens' Coal Co.	1
Grape Creek	1			Fell from motor	1	Economy Coal Co.	1
Himrod	3			Flying coal	2	Entre Nouse Coal Co.	1
Lincoln	1			Kicked by horse	1	Himrod Coal Co.	3
Moweaqua	1			Premature blast	1	Kellyv. C. Co., No. 2.	4
Muncie	1					Kellyv. C. Co., No. 3.	1
Pana	1					Moweaqua C. & M. Co.	1
Westville	5					Pana Coal Co.	1
						Westville Coal Co.	3
Totals	21		21		21		21

Non-Fatal Casualties—Fourth District—July 1, 1901.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and cause of injury	Time lost—Days.
1900									
July 6	John Woodard	25	Catlin	....	1	....	....	Body injured, pit car	30
10	M. Dumont	45	Grape Cr'k.	1	....	5	6	Foot injured, falling rock	10
15	J. M. Demerre	33	Westville	1	....	1	2	Finger cut, car door	30
16	J. Millman	40	Niantic	1	....	3	4	Body injured, falling coal	34
16	M. Homas	23	Grape Cr'k.	....	1	....	....	Back injured, falling roof	10
20	C. Pilson	30	Westville	....	1	....	....	Breast bone inj'd, whip stock	40
21	Henry Shield	..	Danville	....	1	....	....	Fingers injured, falling roof	30
23	J. Ried	17	"	....	1	....	....	Body injured	....
24	A. Mann	29	Bloomingt'n	....	1	....	....	Finger cut off, pit car	30
29	A. Dudley	19	Westville	....	1	....	....	Ankle injured, cable grip	26
Aug. 9	Jno. Dugan	41	"	....	1	....	....	Leg broken, falling rock	70
13	Jno. Bryant	28	Grape Cr'k.	....	1	....	....	Rib broken, pit car	50
17	John Duty	25	Westville	....	1	....	....	Foot cut, pit car	35
20	S. Clamotch	40	"	....	1	....	....	Leg broken, falling rock	60
22	F Lallion	50	Colfax	....	1	....	....	Back injured, falling rock	30
21	Jas. Dunn	..	Westville	....	1	....	....	Collar bone broken	....
25	E. Evans	48	"	1	....	2	3	Leg broken, pit car	400
30	W. Wittee	46	Danville	1	....	4	5	Leg broken, falling rock	60
Sep. 6	J. Hayner	9	"	1	....	9	10	Hips injured, pit car	30
6	F. Masular	30	Himrod	....	1	....	....	Back injured, falling roof	100
8	Riley Starks	44	Grape Cr'k.	1	....	2	3	Body injured, powder explos'n	30
17	A. Vansdale	26	Westville	....	1	....	....	Hips injured, pit car	20
17	A. Broadman	55	Pana	1	....	5	3	Arm broken	48
17	Wm. Jones	..	Danville	....	1	....	....	Hand injured	....
19	Joe Armoski	23	Westville	....	1	....	....	Leg broken, falling roof	60
24	Jno. Peterson	38	Himrod	....	1	....	....	Leg broken, falling roof	90
25	Jas. True	40	Pana	1	....	1	2	Leg broken, falling coal	150
26	E. Colvin	19	Westville	....	1	....	....	Arm broken, falling rock	30
27	Simon Jenkins	..	Danville	1	....	1	2	Back sprained	....
28	Jno. Dept	15	Grape Cr'k.	....	1	....	....	Foot injured, pit car	30
28	J. A. Dondona	42	Danville	1	....	....	....	Body injured, pit car	30
Oct. 1	Alex Calier	40	Pana	1	....	2	3	Foot injured, pit car	37
4	Geo. Henderson	25	Danville	....	1	....	....	Leg broken, falling roof	90
12	Wm. Pratt	16	"	....	1	....	....	Arm injured, pit car	15
12	Bert Woods	..	Westville	....	1	....	....	Body injured	....
18	F. Farley	30	"	....	1	....	....	Shoulder injur'd, fall'g timber	25
19	D. Jenkins	24	Danville	....	1	....	....	Ribs injured, falling rock	21
20	F. Brennan	25	Himrod	1	....	1	2	Ankle broken, falling coal	70
31	Jno. Hlia	..	Westville	1	....	1	2	Back injured	....
31	Peter Carps	..	"	1	....	1	1	Back injured and ribs broken	....
Nov. 1	Jno. Pinkesy	58	Pana	1	....	1	1	Coll. b. & ribs brok'n, fall'g c'l.	40
5	R. Roitker	50	Lincoln	1	....	3	....	Arm broken, coal down shaft.	130
5	D. Lewis	28	Danville	1	....	....	....	Leg injured, pit car	30
8	Jno. Van Gordon	26	Pana	1	....	1	2	Collar bone broken, pit car	15
16	Joe Renner	23	Catlin	....	1	....	....	Body scalded by steam	30
21	Sam Brazier	27	Danville	....	1	....	....	Leg injured, pit car	15
21	Wm. Matthews	43	"	1	....	....	....	Arm broken, falling rock	60
Dec. 7	Jno. Conley	53	Grape Cr'k.	....	1	....	....	Shoulder injured, falling rock	62
10	T. Tolbert	32	Danville	....	1	....	....	Leg injured, iron rail	95
14	Jno. Ames	28	Westville	1	....	1	2	Leg injured, pit car	70
17	Wm. Jackson	50	Himrod	1	....	2	3	Ankle injured, falling rock	60
21	R. Osland	40	Taylorville	1	....	4	5	Body injured, falling slate	14
22	P. Boydem	24	Himrod	....	1	....	....	Leg broken, falling roof	70
24	C. Berryland	22	Bloomingt'n	....	1	....	....	Body injured, pit car	30
31	A. Chigrin	60	Roanoke	....	1	....	....	Ankle broken, falling coal	140
1901									
Jan. 7	Chas. Golden	..	Westville	....	1	....	....	Leg injured	....
9	J. Daniels	35	Taylorville	1	....	2	3	Body injured, falling timber	21
9	Geo. Elliott	28	"	1	....	2	3	Leg injured, falling coal	78
9	S. Sampson	45	Danville	....	1	....	....	Back injured, falling rock	45
12	H. Tison	50	Roanoke	1	....	3	4	Ankle broken, falling coal	32
13	Jno. Kirches	..	Westville	....	1	....	....	Leg broken	....
16	Chas. Guyurhs	..	"	....	1	....	....	Leg injured	....
24	F. Weidenburner	..	Danville	....	1	....	....	Head injured	....
24	N. Getritus	..	Westville	....	1	....	....	Head injured	....
25	M. Lowrey	59	Bloomingt'n	1	....	4	....	Leg injured, falling coal	40
27	M. Healy	55	Westville	....	1	....	....	Leg injured, pit car	20
28	R. Martin	26	"	....	1	....	....	Finger broken, pit car	31
28	M. Couisle	25	"	....	1	....	....	Body injured, powder explos'n	100
30	P. Dirquice	45	Roanoke	1	....	....	....	Leg broken, falling coal	95
30	Dom Kelps	25	Himrod	....	1	....	....	Nose broken, falling coal	50
Feb. 2	J. Fogerty	31	Pana	....	1	....	....	Leg broken, kicked by mule	60

Non-Fatal Casualties—Fourth District—July 1, 1901.—Concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent	Character and cause of injury	Time lost—Days.
1901									
Feb. 2	J. Pearson	21	Pana	....	1	....	....	Face injured, kicked by mule.	15
5	Wm. Heinbury	..	Westville	....	1	2	3	Head injured	....
7	Jno. Eurie	..	...	....	1	....	....	Ankle sprained	....
14	C. Anderson	23	Colfax	....	1	....	....	Foot injured, pit car	10
14	E. Scholtz	23	"	1	....	....	1	Foot injured, pit car	10
14	John Baird	50	"	....	1	....	....	Knee injured, falling roof	20
15	Wm. Luck	25	Pana	....	1	....	....	Eye injured, flying steel	10
18	O. Skelton	25	Danville	1	....	1	2	Leg injured, pit car	15
18	O. Jones	23	"	....	1	....	....	Foot injured, falling rock	73
Mar. 6	A. Polander	50	Bloomingt'n	1	....	....	....	Shoulder injured, falling coal.	30
15	A. Orlea	25	Westville	1	....	....	....	Hand injured, pit car	20
16	J. Durant	30	"	....	1	....	....	Head injured, falling rock	35
22	J. Walton	22	Danville	1	....	2	....	Hip injured, pit car	10
26	A. H. Miller	35	Grape Cr'k.	1	....	....	....	Foot injured, cable rope	10
26	T. Polusic	32	Westville	....	1	....	....	Leg broken, falling rock	65
27	M. Stephan	31	Taylorville	1	....	1	....	Body paralyzed, falling coal	300
April 3	C. Watkins	25	Danville	....	1	....	....	Hip disloc'd, fall'g coal & rock	60
10	J. Mortz	32	Westville	1	....	....	....	Toe broken, piece of iron	35
17	H. Hecht	17	Grape Cr'k.	....	1	....	....	Leg broken, falling rock	60
20	V. Nygren	21	Danville	....	1	....	....	Foot injured, pit car	20
23	M. Boyle	40	"	....	1	....	....	Back injured, falling rock	31
24	M. Catchin	35	Westville	....	1	....	....	Body injured, shot	100
26	A. Carlson	40	Colfax	1	....	4	5	Back injured, falling rock	20
29	A. Siedelman	55	Danville	1	....	4	6	Arm injured, falling rock	28
30	J. Whitenmeyer	40	"	1	....	2	3	Head injured, crossbar	10
May 1	E. Marvel	14	Grape Cr'k.	....	1	....	....	Leg broken, falling coal	45
9	W. Wood	23	Danville	....	1	....	....	Foot injured, pit car	25
14	G. W. Gubast	..	Westville	....	1	....	....	Ankle sprained	....
21	W. Clark	24	Danville	....	1	....	....	Finger injured, pit car	24
27	Dan Davis	24	Grape Cr'k.	1	....	....	....	Ankle injured, falling rock	15
29	T. Radford	..	Danville	....	1	....	....	Leg injured	....
June 4	A. Coxen	20	Grape Cr'k.	....	1	....	....	Foot injured, pit car	10
5	Geo. Miller	..	Westville	1	....	....	1	Leg injured	....
5	Robt. Riley	..	Danville	....	1	....	....	Foot injured	....
17	Frank Spikere	..	"	1	....	1	1	Head injured	....
24	E. Robinson	37	Georgetown	....	1	....	....	Toe broken, falling rock	30
25	C. Mitchell	19	Westville	....	1	....	....	Arm injured, falling rock	21

Total men injured	108
Not recovered July 1, 1901	19
Number recovered July 1, 1901	89
Time lost by men recovered	4,731 days
Average days lost by men recovered	43.73

Recapitulation of Non-Fatal Accidents—Fourth District—1901.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Bloomington.	4	Cagers.....	2	Blast explosions...	2	Brookside Coal Co...	9
Catlin.....	2	Drivers.	34	Cables	2	Catlin Coal Co	2
Colfax	5	Gripmen	2	Falling rock.....	26	Colfax C. & M. Co ...	5
Danville	29	Laborers.....	4	Falling coal	20	Decatur Coal Co	1
Grape Creek.	11	Loaders	8	Falling roof	9	Economy Coal Co....	4
Georgetown..	1	Miners.....	49	Falling timber	3	Himrod Coal Co., 1...	9
Himrod	6	Mach. helpers	2	Falling slate	5	Himrod Coal Co., 2...	10
Lincoln.....	1	Timber men..	2	Iron rails.....	2	John O. Connell	3
Niantic	1	Trackmen.....	2	Kicked by mule....	1	Kellyville Coal Co., 2.	13
Pana.....	8	Trappers	2	Pit cars.....	33	Kellyville Coal Co., 3.	13
Roanoke	3	Weighman ...	1	Powder explosion..	2	Lincoln Coal Co.....	1
Taylorville...	4			Piece of flying steel	1	McLean Co. Coal Co.	4
Westville	33			Scalded by steam..	1	Penwell Coal Co	5
				Whip stock.....	1	Roanoke Coal Co,....	3
						Springside Coal Co..	3
						Taylorville Coal Co..	4
						Westville Coal Co....	19
Totals	108	.....	108	.....	108	.....	108

Table Showing the Nature of the Injuries, Number of Persons Injured, Dependents, Time Lost, with Averages and Percentages—Fourth District.

Nature of Injuries.	Number.	Married.	Single.	Dependents.	Time Lost.		Per cent of Injuries.
					Total days.	Average days.	
Ankles broken.....	3	3	.....	6	242	80.7	2.78
Ankles injured.....	5	1	4	3	101	20.2	4.54
Arms broken	4	2	2	3	268	67	3.61
Arms injured.....	3	1	2	6	64	21.3	2.78
Body injured.....	13	6	7	15	759	57	12.27
Body scalded.....	1	.....	1	.....	30	30	0.93
Back sprained.....	3	2	1	4	120	40	2.78
Back injured	6	1	5	5	236	29.3	5.56
Collar bone broken.....	3	2	1	3	55	18.4	2.78
Eyes injured.....	1	.....	1	.....	10	10	0.93
Face injured.....	1	.....	1	.....	15	15	0.93
Fingers cut off.....	2	1	1	2	60	30	1.85
Fingers injured	3	1	2	.....	55	18.4	2.78
Feet injured.....	12	5	7	10	270	22.5	11.10
Hands injured.....	2	1	1	.....	20	20	1.85
Head injured.....	6	5	1	7	145	24	5.56
Hips injured.....	4	2	2	10	120	30	3.71
Knee injured	1	.....	1	.....	20	20	0.93
Legs broken.....	15	4	11	10	1,375	92	13.81
Legs injured.....	12	5	7	7	463	38.6	11.10
Nose broken	1	.....	1	.....	50	50	0.93
Ribs broken	1	.....	1	.....	50	50	0.93
Ribs injured.....	1	.....	1	.....	21	21	0.93
Shoulder injured	3	1	2	1	117	39	2.78
Toes broken.....	2	1	1	.....	65	38	1.85
Totals, averages and percentages.....	108	44	64	92	4,731	43.73	100.00

Christian County—Fourth District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Taylorville C. Co	Taylorville	211,340	30,045	181,295	$1.30	$171,214
2	Penwell C. Co	Pana	99,335	49,627	49,708	1.25	87,649
3	Pana C. Co	"	98,060	41,982	56,078	1.10	76,673
4	Springside C. Co	"	84,947	23,836	61,111	1.10	71,769
5	Assumption C. and M. Co	Assumption	73,300	38,453	34,847	1.30	70,788
6	Edinburg Coal Co	Edinburg	11,500	7,000	4,500	1.20	11,850
	Totals		578,482	190,943	387,539		$489.974
	Averages					$1.20	

Mines in 1900, 6.
Mines in 1901, 6.

Logan County—Fourth District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Lincoln Coal Co	Lincoln	69,140	51,855	17,285	$1.06	$69,466
2	Citizens' Coal Co	"	85,933	38,773	47,160	1.00	85,933
3	Mt. Pulaski Coal Co	Mt. Pulaski	7,018	4,789	2,229	2.14	12,925
	Totals		162,091	95,417	66,674		$168,322
	Averages					$1.20	

Mines in 1900, 3.
Mines in 1901, 3.

Christian County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
159,000	24,000	16,000	213	211,340	.....	$0.49	.....	195	34	2	27	258	1
79,748	87	11,779	111	99,335	.....	.49	.....	140	40	18	30	228	2
56,679	26,100	5,821	104	98,060	.....	.49	.....	110	35	6	20	171	3
80,947	.....	2,000	115	84,947	.....	.49	.....	100	38	3	12	153	4
59,812	.....	7,078	166	73,300	.....	.65	.....	104	25	5	22	156	5
9,000	.....	2,000	100	11,500	.....	.49	.....	20	4	1	4	29	6
445,186	50,187	44,678	....	578,482	.....	.....	.....	669	176	35	115	995	
.....	.....	.....	136			$0.51	.....	.....	.....	....	....	.....	

Logan County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
21,418	27,500	16,500	220	69,140	.....	$0.53	.....	85	29	5	16	135	1
55,000	12,000	13,133	200	85,933	.....	.53	.....	85	14	4	16	119	2
720	.....	4,877	190	7,018	.....	.66	.....	20	13	....	5	38	3
77,138	39,500	34,510	....	162,091	.....	.....	.....	190	56	9	37	292	
.....	.....	.....	203	.....	.....	$0.55	.....	.....	.....	....	....	.....	

McLean County—Fourth District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	McLean County Coal Co....	Bloomington..	125,000	93,000	32,000	$1.50	$160,250
2	East Colfax Coal Co	Colfax	8,800	4,540	4,260	1.10	8,200
3	Colfax Coal & Mining Co...	"	30,959	19,289	11,670	1.23	31,519
4	Chenoa Coal Co	Chenoa	3,000	2,000	1,000	2.25	4,920
	Totals.....	.....	167,759	118,829	48,930	.....	$204,889
	Averages	.....	.....	.....	.....	$1.45	.....

Mines in 1900, 4.
Mines in 1901, 4.

Macon County—Fourth District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other Grades.		
1	Decatur Coal Co	Decatur.....	24,248	20,300	3,948	$2.00	$45,175
2	" "	"	35,055	27,384	7,671	2.00	63,339
3	" "	Niantic	30,067	19,934	10,133	1.30	33,132
	Totals.....	.....	89,370	67,618	21,752	.....	$141,646
	Averages	.....	.....	.....	.....	$1.793	.....

Mines in 1900, 3.
Mines in 1901, 3.

McLean County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
30,000	25,000	45,000	280	125,000	.....	.71-.81	.....	225	45	6	35	311	1
7,435	.....	1,140	182	8,800	.....	53	.....	12	18	....	7	37	2
14,770	6,340	7,380	260	30,959	.....	53	.....	36	5	1	10	52	3
.....	.....	3,000	100	3,000	.....	60	.....	5	2	1	3	11	4
52,205	31,340	56,520	....	167,759	.....	.....	.....	278	70	8	55	411	
.....	.....	.....	205	.....	.....	$0.66	.....	.....	.....	....	....	.....	

Macon County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
12,993	.....	11,255	100	24,248	.....	$0.64	.....	85	17	8	6	116	1
.....	.....	35,055	130	35,055	.....	64	.....	100	21	10	6	137	2
20,189	.....	7,754	170	6,874	23,193	53	$0.46	30	40	3	9	82	3
33,182	.....	54,064	....	66,177	23,193	.....	.....	215	78	21	21	335	
.....	.....	.....	133	.....	.....	$0.628	$0.46	.....	.....	....	....	.....	

Shelby County—Fourth District—1901.

Number.	Name of Operator.	Postoffice Address of Mines.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Moweaqua C. M. & Mfg. Co.	Moweaqua	88,050	41,921	46,129	$1.55	$103,946
2	Jno. Richardson	Shelbyville	6,000	6,000		2.12	12,720
3	M. Brophy	"	13,000		13,000		27,300
4	H. C. Gallagher	Mode	1,000	1,000		1.80	1,800
5	J. A. Bowman	Shelbyville	50	50		2.00	100
6	B. F. Stritch	"	2,500	2,500		2.00	5,000
6	S. Igo & Son	"	5,000	5,000		2.00	10,000
8	John Stockdale	Robinson Cr'k	500	500		2.00	1,000
	Totals		116,100	56,971	59,129		$161,866
	Averages					$1.68	

Mines in 1900, 8.
Mines in 1901, 8.

Shelby County, 1901.—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
72,296	5,977	5,459	200	55,848	32,202	$0.55	$0.46	103	27	4	26	150	1
.....	.....	6,000	200	6,000	.....	1.40	.....	8	3	....	4	15	2
.....	.....	13,000	175	13,000	.....	1.37	.....	8	1	....	1	10	3
.....	.....	1,000	225	1,000	.....	1.10	.....	8	1	....	1	10	4
.....	.....	50	25	50	.....	1.37	.....	2	.....	....	1	3	5
.....	.....	2,500	150	2,500	.....	1.37	.....	6	1	....	2	9	6
.....	.....	5,000	200	5,000	.....	1.37	.....	5	1	....	1	7	7
.....	.....	500	100	500	.....	1.37	.....	2	1	....	1	4	7
72,296	5,977	33,509	....	83,898	32,202	.....	.....	142	35	4	31	212	
.....	.....	.....	182	.....	.....	$0.81	$0.46	.....	.....	....	....	.....	

Vermilion County—Fourth District—1901.

Number.	Name of Operator.	Postoffice Address of Mines.	Output—Tons. Total.	Lump.	Other grades.	Average value of lump coal at the mine.	Aggregate value of product
1	Kellyville Coal Co., 3	Westville	320,821	.....	320,821	.....	$307,988
2	Kellyville Coal Co., 2	"	258,518	.....	258,518	.....	248,177
3	Himrod Coal Co., Himrod	Himrod	244,443	.....	244,443	.....	227,332
4	Himrod Coal Co., Pawnee	Westville	194,660	73,480	121,175	$1.16	181,524
5	Westville Coal Co	"	237,478	2,460	235,018	1.16	218,398
6	Economy C. & M. Co	.....	113,118	6,250	106,868	1.35	128,004
7	Brookside Coal Co., 2	Grape Creek	89,846	6,354	83,492	1.30	88,430
8	Brookside Coal Co., 1	"	29,948	.....	29,948	.....	29,948
9	Catlin Coal Co	Catlin	179,829	137,505	42,324	1.25	187,257
10	Con. Coal Co., Fairmount	Fairmount	67,307	53,697	13,610	1.25	71,110
11	Con. Coal Co	Missionfield	65,043	.....	65,043	.....	64,868
12	Entre Nous Coal Co	Muncie	15,000	7,000	8,000	1.75	22,625
13	J. O'Connell Coal Co	Grape Creek	57,025	.....	57,024	.....	55,884
14	Miller & Spangler	Danville	3,455	1,180	2,275	1.50	3,334
15	J. R. Colburn	Vandercook	2,053	1,850	203	1.25	2,516
16	Danville Brick & Tile Co	Danville	7,500	.....	7,500	.....	7,500
17	Stansburg & Watkins	"	6,500	3,900	2,600	1.75	9,425
18	E. S. Gray	"	21,000	7,000	14,000	1.50	22,700
19	D. A. Jenkins	"	10,000	3,050	6,950	1.50	10,312
20	Mauck Bros	"	13,000	7,000	6,000	1.35	14,000
21	John Swanson	"	1,359	906	453	1.50	1,497
22	S. Parle	"	5,500	3,000	2,500	1.50	6,825
23	C. J. Dobbins	"	1,000	.....	1,000	.....	1,250
24	Wm. Ray	"	600	400	200	.....	800
25	D. Harrington	"	1,000	.....	1,000	.....	1,000
26	Wm. Schafer	"	2,400	1,800	600	1.35	2,715
27	James Thomas	"	2,757	1,860	897	1.25	2,772
28	Wm. Winehouse	"	4,290	2,860	1,430	1.50	5,363
29	J. E. Allison	"	1,855	.....	1,855	.....	1,670
30	Silas Miller	Grape Creek	300	.....	300	.....	270
31	John Woodard	Oakwood	1,000	1,000	.....	1.25	1,250
32	J. M. Kinney	Vandercook	300	.....	300	.....	270
33	H. Wonderlin	Danville	1,000	1,000	.....	1.25	1,300
34	Jos. Maviage	Grape Creek	2,363	.....	2,363	.....	2,363
35	D. D. Morin	Danville	3,620	2,414	1,206	1.50	3,923
36	Shepherd Bros	Catlin	1,300	1,000	300	1.00	1,627
37	M. C. Wilkinson	Danville	1,700	1,100	600	1.37	1,927
38	John Auldredge	"	2,100	1,675	425	1.50	2,844
39	Jos. Thompson	Grape Creek	8,450	6,150	2,300	1.20	8,730
40	H. Harris	Catlin	1,300	1,000	300	1.25	1,475
41	B. F. Lloyd	Danville	700	300	400	1.50	810
42	B. Beddows	"	539	319	220	1.50	662
43	J. C. Cannon	"	1,000	1,000	.....	1.25	1,250
44	Jos. Bales	"	600	600	.....	1.75	1,050
45	L. S. Miller	"	2,000	1,900	100	1.25	2,425
46	Alfred Haskin	Grape Creek	500	300	200	1.25	515
47	Chas. Cook	"	1,414	1,353	61	1.50	2,066
48	T. J. Morton	Danville	800	300	500	1.25	970
49	S. M. Hodge	"	2,000	.....	2,000	.....	2,000
50	J. B. Daniel	Vandercook	2,400	.....	2,400	.....	2,400
51	A. O. Daniel	Danville	490	300	190	1.75	728
52	Carter Bros	"	1,500	1,000	500	1.25	1,375
53	C. R. Smoot	Vandercook	600	.....	600	.....	600
54	L. E. Baker	Oakwood	1,500	1,300	200	1.25	1,725
55	Arthur Jones & Sons	Catlin	7,000	5,000	2,000	1.50	9,500
	Totals	.....	2,003,780	350,568	1,470,506	.....	$1,971,999
	Averages	.....	.....	.....	.....	$1.48	.....

Mines in 1900, 58.
New mines, 9.
Abandoned mines, 12.
Mines in 1901, 55.

Vermilion County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
312,321	.....	2,500	212	320,821	.....	$0.49	.....	236	336	14	18	604	4
250,518	.....	3,000	189	258,518	.....	.49	.....	237	321	23	19	600	1
239,563	.....	500	178	229,900	14,543	.49	$0.39	166	280	6	15	467	2
190,280	.....	.....	183	194,660	.....	.49	.....	160	250	8	15	433	3
234,228	.....	.....	191	237,478	.....	.49	.....	198	40	6	15	259	5
111,718	.....	.....	250	113,118	.....	.49	.....	100	150	6	11	267	6
84,535	.....	558	182	89,846	.....	.49	.....	164	204	5	15	388	7
29,516	.....	.....	153	29,948	.....	.49	.....	50	70	2	7	129	8
175,939	.....	.....	206	179,829	.....	.49	.....	175	55	....	18	248	9
61,567	.....	2,259	203	67,307	.....	.49	.....	75	98	4	16	193	10
63,487	.....	256	158	65,043	.....	.....	.....	.....	.....	....	200	200	11
12,000	.....	1,500	200	15,000	.....	.49	.....	60	50	1	9	120	12
56,087	.....	217	180	57,024	.....	.49	.....	85	12	4	8	109	13
.....	.....	3,455	150	3,455	.....	.49	.....	3	1	....	2	6	14
.....	.....	2,053	100	2,053	.....	.49	.....	3	3	....	1	7	15
.....	.....	.....	200	7,500	.....	.....	.....	5	1	1	1	8	16
.....	.....	6,500	220	6,500	.....	.49	.....	8	.....	....	2	10	17
.....	.....	21,000	200	21,000	.....	.49	.....	20	4	3	4	31	18
.....	.....	10,000	300	10,000	.....	.49	.....	18	2	....	3	23	19
4,500	.....	8,500	250	13,000	.....	.49	.....	12	2	....	....	14	20
.....	.....	1,359	150	1,359	.....	.49	.....	2	2	....	....	4	21
.....	.....	5,500	160	5,500	.....	.49	.....	6	.....	....	5	11	22
.....	.....	1,000	100	1,000	.....	.49	.....	.....	.....	....	2	2	23
.....	.....	600	80	600	.....	.49	.....	2	.....	....	1	3	24
.....	.....	1,000	100	1,000	.....	.49	.....	2	.....	....	1	3	25
.....	.....	2,400	265	2,400	.....	.49	.....	2	.....	....	1	3	26
.....	.....	2,757	195	2,757	.....	.49	.....	3	1	....	2	6	27
.....	.....	4,290	100	4,290	.....	.49	.....	2	1	....	2	5	28
.....	.....	1,855	100	1,855	.....	.50	.....	3	1	....	1	5	29
.....	.....	300	60	300	.....	.49	.....	2	.....	....	1	3	30
.....	.....	1,000	150	1,000	.....	.49	.....	4	1	....	1	6	31
.....	.....	300	80	300	.....	.49	.....	1	.....	....	1	2	32
.....	.....	1,000	150	1,000	.....	.49	.....	3	1	....	1	5	33
.....	.....	2,363	75	2,363	.....	.49	.....	2	1	....	1	4	35
.....	.....	3,620	150	3,620	.....	.49	.....	4	1	....	1	6	34
.....	.....	1,300	160	1,300	.....	.49	.....	3	1	....	1	5	36
.....	.....	1,700	165	1,700	.....	.49	.....	2	1	....	1	4	37
.....	.....	2,100	200	2,100	.....	.49	.....	3	1	....	1	5	38
1,300	.....	7,150	240	8,450	.....	.49	.....	2	.....	....	1	3	39
.....	.....	1,300	120	1,300	.....	.49	.....	8	1	....	1	10	40
.....	.....	700	90	700	.....	.49	.....	4	2	....	1	7	41
.....	.....	539	80	539	.....	.49	.....	2	.....	....	1	3	42
.....	.....	1,000	100	1,000	.....	.49	.....	.....	.....	....	2	2	43
.....	.....	600	90	600	.....	.49	.....	2	.....	....	1	3	44
.....	.....	2,000	160	2,000	.....	.49	.....	4	1	....	1	6	45
.....	.....	500	60	500	.....	.49	.....	2	.....	....	....	2	46
61	.....	1,353	150	1,414	.....	.49	.....	2	.....	1	....	3	47
.....	.....	800	100	800	.....	.49	.....	2	2	....	1	5	48
.....	.....	2,000	200	2,000	.....	.49	.....	5	1	....	1	7	49
.....	.....	2,400	220	2,400	.....	.49	.....	2	.....	....	1	3	50
.....	.....	490	60	490	.....	.49	.....	2	.....	....	1	3	51
.....	.....	1,500	150	1,500	.....	.50	.....	3	1	....	1	5	52
.....	.....	600	70	600	.....	.49	.....	2	.....	....	1	3	53
.....	.....	1,500	150	1,500	.....	.49	.....	2	.....	....	1	3	54
.....	.....	7,000	200	7,000	.....	.49	.....	6	1	1	2	10	54
1,827,620	.....	128,174	....	1,990,237	14,543	.....	.....	1,871	900	85	420	4,276	
.....	.....	.....	154	.....	.....	$0.49	$0.39	.....	.....	....	....	.....	

Woodford County—Fourth District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Roanoke Coal & Mining Co.	Roanoke.....	84,778	70,069	14,709	1.51	$113,068
2	Chicago & M. C. & T. Co...	Minonk	50,800	45,000	5,800	1.51	71,990
	Totals.....	.....	135,578	115,069	20,509	.....	$185,068
	Averages	.....	.....	.....	.....	$1.51	.....

Woodford County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
68,055	3,496	6,246	241	84,778	.....	$0.76	.....	153	34	3	14	204	1
40,000	5,000	3,000	150	50,800	.....	.76	.....	160	35	5	25	225	2
108,055	8,496	9,246	....	135,578	.....	.....	.....	313	69	8	39	429	
.....	.....	.....	1955	.....	.....	$0.76	.....	.....	.....	....	....	.....	

Mines in 1900, 2.
Mines in 1901, 2.

Recapitulation by Counties—

Counties.	Number of mines.	Number of shipping mines.	No. of mines in local trade.	Total Tons Produced.	Average Value Per Ton at the Mine.						Aggregate value of total product.	Employes.		
					Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Waste.		Number of miners.	All other employés.	Total.
Christian....	6	6	..	578,482	$1.162	$0.823	$1.074	$0.791	$0.263	$0.119	$489,953	669	326	995
Logan.....	3	3	..	162,091	1.09	1.008	1.89	1.021	.847	.947	168,323	190	102	292
McLean.....	4	3	1	167,759	1.454	.826	.....	1.00	.536	.25	204,894	278	133	411
Macon.....	3	2	..	89,370	1.79	1.10	.....	1.28	.65	.34	141,645	215	120	335
Shelby	8	1	7	116,100	1.68	1.671	.....	1.20	.71	.26	161,865	142	70	212
Vermilion....	55	16	39	2,003,780	1.272	.99	.....	1.00	.60	.42	1,971,999	1,871	2,405	4,276
Woodford ...	2	2	..	135,578	1.51	1.30	.....	1.00	.60	.05	185,058	313	116	429
Totals	81	33	48	3,253,160	.....	.....	.....	.....	.....	.....	$3,323,727	3,678	3,272	6,950
Averages..	...	..	..	.....	$1.34	$0.959	$1.081	$0.886	$0.448	$0.033	.....	.....	.....	.....

Fourth District—1901.

Disposition of Output—Tons.				Average No. of days in operation.	How Mined—Tons.		Prices Paid Per Ton For		Number of kegs of powder used for blasting coal.	Steam Boilers	
Loaded on cars for shipment.	Supplied to locomotives at mines.	Sold to local trade.	Consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.		No. of mines using.	Number in use.
445,186	50,187	44,678	38,431	136	578,482	.....	$0.51	.....	5,383	6	33
77,138	39,500	34,510	10,943	203	162,091	.....	.54	.....	7,352	3	15
52,205	31,340	56,520	27,694	205	167,759	.....	.665	.....	2,000	4	18
33,182	.....	54,064	2,124	133	*66,177	23,193	* .628	$0.46	575	3	13
72,296	5,697	33,509	4,318	159	83,898	32,202	.81	.46	2,800	2	6
1,827,620	.....	128,174	47,986	160	†1,989,237	14,543	† .49	.39	50,580	14	44
108,055	8,496	9,246	9,781	195	135,578	.....	.76	.....	.....	2	10
2,615,682	135,500	360,701	141,277	.....	3,183,222	69,938	.....	.....	68,690	34	139
.....	.....	.....	.....	159	.....	.....	‡$0.521	$0.445	.....	....	....

* Screened coal, 28,050 tons, $1.367 per ton.

† 72,543 tons mined by hand and paid for by the day.

‡ Based on 3,082,629 tons.

FIFTH INSPECTION DISTRICT—1901.

Counties—Brown, Calhoun, Greene, Jersey, Macoupin, Montgomery, Morgan, Sangamon, Scott.

WALTON RUTLEDGE, *Inspector*, Alton.

HON. DAVID ROSS, *Secretary*,
State Bureau of Labor Statistics, Springfield, Illinois.

SIR—In compliance with the statutes of the State, defining the duties of the State inspectors of coal mines, I have the honor to herewith submit to you the eighteenth annual report of the coal mines in the Fifth Inspection District, for the year ended June 30, 1901. The tabular statements in this report show the number of miners and other employés engaged in the mining industry of the district; the number of mines, both shipping and local; the number of accidents, both fatal and non-fatal, that have occurred during the year; the amount of coal, all grades, that has been produced, with the mining price and selling price at the mine.

The following is a summary of the various tables found in the report:

Number of mines	102
Number of shipping mines	46
Number of mines in local trade	56
Total output in tons of 2,000 pounds	5,416,504
Tons of lump coal	2,462,076
Tons of mine run coal	1,578,480
Tons of egg coal	75,377
Tons of nut coal	208,966
Tons of screenings	863,561
Tons of slack coal	228,044
Tons loaded on cars for shipment	4,701,972
Tons supplied to locomotives at mines	202,618
Tons sold to local trade	305,657
Tons consumed and wasted at mines	206,257
Average number of days in operation	175
Tons mined by hand	3,455,617
Tons mined by machines	1,960,887
Number of mines using machines	14
Number of machines in use	145
Number of boilers at the mines	197
Average value per ton of lump coal at the mines	$1.043
Average value per ton of mine run coal	$0.867
Average value per ton of egg coal	$1.016
Average value per ton of nut coal	$0.833
Average value per ton of screenings (pea coal)	$0.421
Average value per ton of slack coal	$0.227
Average price paid per ton for hand mining	$0.4978
Average price paid per ton for machine mining	$0.42
Aggregate value of total product	$4,601,089
Number of kegs of powder used	140,149
Number of miners	4,985
Number of other employés under ground	892
Boys working under ground	232

Employés above ground	728
Total number of employés	6,837
Number of fatal accidents	17
Number of non-fatal accidents	47
Tons of coal mined to each fatal accident	318,618
Tons of coal mined to each non-fatal accident	112,844
Number of employés to each fatal accident	402
Number of employés to each non-fatal accident	142
Number of mines using rope haulage	4
Number of mines using electric haulage	3
Number of mines using electric coal cutting machines	4
Number of mines using compressed air cutting machines	10
Number of electric coal cutting machines	22
Number of compressed air machines	123

The following table gives the output by counties, for the years 1900 and 1901, showing the increase or decrease for this year:

Counties.	Total Output of All Grades of Coal—In Tons.		Increase.	Decrease.
	1900.	1901.		
Brown	2,992	1,950	.....	1,042
Calhoun	6,952	5,204	.....	1,748
Greene	14,020	13,233	.....	787
Jersey	2,800	2,791	.....	9
Macoupin	1,849,796	2,115,391	265,595	.....
Montgomery	389,822	328,251	.....	61,571
Morgan	4,010	3,047	.....	963
Sangamon	2,519,911	2,919,223	399,312	.....
Scott	26,149	27,486	1,337	.....
Total	4,816,452	5,416,576	666,244	66,120
Total net increase	.....	.....	600,124	.....

The district shows a net increase of 600,124 tons, which is due to Macoupin and Sangamon counties; Sangamon county has mined nearly 3,000,000 tons. The large decrease is due to the Coffeen Coal & Coke Co., Coffeen, Montgomery county. This mine only worked 40 days during the year, owing to a fire in the mine.

The small mines show a falling off, which was largely due to the mild winter. The large increase in Macoupin and Sangamon counties is largely due to the increased business of manufactories in Chicago and other cities. The local trade shows a falling off or decrease of 71,009 tons, which is attributed to the effect of a mild winter, which means less house coal sold in the various cities, towns and farming communities.

New Mines—The Chicago, Wilmington & Vermilion Coal Co., Chicago, Illinois, has opened out a new mine on the C. & A. R. R., about two miles north of Virden, Macoupin county; a town site has been established, the name of the town is Thayer; a postoffice and depot will be established in the near future, forty-two dwelling houses have been built, and quite a number of others are not completed; a large store building has been erected, also a hotel

containing twenty-three rooms. The mining plant is first-class in every particular; everything has been done from plans and designs drawn by William S. Cherry, the general superintendent of the company. The main shaft is 13 feet 3 inches, by 8 feet 6 inches cross section, with two cageways, each 8 feet 6 inches by 4 feet 6 inches; the depth of the shaft to the top of the coal is 292 feet, the thickness of the coal seam is 7 feet 11 inches. The air or escapement shaft has a cross section of 10 feet 8 inches by 10 feet 8 inches for ventilation alone, with a traveling way for escapement of 4 feet by 10 feet 8 inches; the ladders used for the traveling way in the escapement shaft are put in very substantial, and are easy and safe for men to travel. The hoisting engines are the Litchfield type, first motion, each cylinder is 24 inches in diameter and 36 inches stroke; the drum is 7 feet in diameter. There are six boilers, each 60 inches diameter by 20 feet long, with two 18-inch flues.

The ventilating fan is 20 feet in diameter, set back from the escapement shaft a distance of 60 feet; a brick arched tunnel, with 13-inch walls carries the air from the air-shaft to the fan. All the buildings, engine house, boiler house, machine shop, blacksmith and carpenter shops, and dynamo building are erected so as to be as near fire-proof as they can be made; the buildings are all detached from one another, so as to eliminate all danger from fire. The horse-power of the generators is ample for both coal cutting and electric haulage. A 15-ton electric motor has been installed for haulage from one side of the mine; when the underground workings are far enough developed, another motor will be put in. The hoisting is done by the Cherry-dump cage, with ample screening facilities, on improved shaking screens. The spurs and side tracks are intended for a large output, which will be maintained when the mine is far enough developed.

A new mine has been opened out within the corporate limits of the city of Springfield, near Lincoln Park. The name of the firm is the Lincoln Park Coal Mining Company; the mine is operated for the local trade; two shafts have been sunk, one for a hoisting shaft, the other for escapement and air shaft; the plant is well equipped for a local plant. The tower and outbuildings are substantial, with proper engine and boiler power for hoisting.

Escapement Shafts—The Springfield Coöperative Coal Co., Springfield, Sangamon county, has sunk a new shaft during the year, which will be used as an escapement and ventilating shaft; this gives two ways of escapement for this mine. The Virden Coal Co., Virden, Macoupin county, has finished a new shaft which can be used for escapement. It is sunk large enough for a hoisting shaft.

Improvements—The Consolidated Coal Co., St. Louis, Mo., has put up a new tower and outbuildings at its Gillespie mine, Macoupin county. The Madison Coal Co. has put up a new tower at its No. 5 mine, Mt. Olive, Macoupin county; it has also put in dump cages at the same mine. The Hillsboro Coal Co., Hillsboro, Montgomery county, has extended the tail-rope haulage in its mine to the east side of the mine, and now have tail-rope haulage on both sides of the mine; the tail-rope drums are operated by electric motors, and the plant works very successfully.

The Nilwood Carbon Coal Co., Nilwood, Macoupin county, has put in a new engine at its escapement shaft. The Junction Mining Co., Springfield, Sangamon county, has put in two more boilers. The Clear Lake Coöperative Coal Co., Bissell, Sangamon county, has retimbered a large portion of its escapement shaft. The Jones & Adams Coal Co., Springfield, Sangamon county, has put in a pair of new hoisting engines 24x36 inches; these engines were manufactured at the Danville Machine & Foundry Co., Danville, Vermilion county. The company has also put in a pair of the Duncan dump cages. The Riverton Coal Co., Riverton, Sangamon county, has also put in the Duncan dump cage at its No. 2 shaft. The Victor Coal Co., Pawnee, Sangamon county, is putting in a very substantial plant at the new shaft recently sunk at that point; this plant will embrace all the latest improvements known to our coal mines; the present hoisting shaft will be used as an escapement when the plant at the new shaft is finished.

The Capitol Coöperative Coal Co., Springfield, Sangamon county, will abandon its No. 1 shaft as a hoisting shaft; it will be used only as an escapement and ventilating shaft; a new fan has been put up and new ladders put in.

The Chicago-Virden Coal Co. has put in two new boilers at its No. 3 mine at Chatham, Sangamon county; the company has also built a new boiler house, retimbered the escapement shaft, put in new ladders and put up a larger fan. The Black Diamond Coal Co., Springfield, Sangamon county, has improved the hoisting tower at its mine and put in Duncan dump cages.

Electric Haulage—There are now three mines using electric haulage in this district, the Consolidated Coal Co. at its No. 10 mine, Mount Olive, Macoupin county, the Jones & Adams Coal Co., Springfield, Sangamon county, and the Chicago, Wilmington Coal Co., Thayer, Macoupin county. The Chicago-Virden Coal Co., Virden, Macoupin county, will have electric haulage in its No. 1 mine, at Virden, at an early date.

Rope Haulage—There are four mines in the district using rope haulage: The Hillsboro Coal Co., Hillsboro, Montgomery county, and the Riverton Coal Co. No. 1, Riverton, Sangamon county, use the tail-rope haulage. The Consolidated Coal Co. No. 6, Staunton, Macoupin county, and the Capitol Coöperative Coal Co. No. 2, Springfield, Sangamon county, use the endless rope haulage. Tail-rope haulage will be put in the Republic Iron Co.'s mine at Ridgley, Sangamon county, in a very short time.

Changes of Ownership—The Springfield & Pleasant Plains Coal Co., Pleasant Plains, Sangamon county, has sold its mine at that place to Joseph Trutter, of Springfield. Mr. Trutter has sunk a new hoisting shaft, and is now putting up the tower and placing the engines and boilers; the present hoisting shaft will be dismantled as a hoisting shaft, and ladders put in so that it can be used as an escapement shaft. A portion of the shaft will be used for ventilation.

The Coffeen Coal & Coöperative Co., Coffeen, Montgomery county, has sold its mine to the Mitchell Coal & Coke Co., of the same place. The new company will operate the mine in the future.

The Horse Creek Coal Co., Pawnee, Sangamon county, has sold its property, both the Pawnee Railroad and the mine, to a corporation known as the Victor Coal Co., which will operate this mine, and it will be known by the new name in the future. This company expects to do a large coal business; it is building a number of houses and making great improvements both in and around the mine.

Scales—A large number of scales have been tested and adjusted during the year, also a large quantity of oil; fully one-third of the oil does not come up to the standard, and has been condemned. I cheerfully give credit to George Morgan and George Strebel, county mine inspectors of Sangamon and Macoupin counties, respectively, who have ably assisted me during the year.

Fatal Casualties.—There have been seventeen fatal accidents in the district during the year, seven of which were caused by premature blasts; six of these accidents occurred in Sangamon county, where coal is blasted off the solid. The following is a detailed statement of those who lost their lives during the year:

August 13, 1900, S. P. Baker, mine examiner, aged 37 years, married, received fatal injuries in the escapement shaft of the Consolidated Coal Co.'s mine at Gillespie, Macoupin county. The company was building a new tower at the hoisting shaft; Baker had gone down the escapement shaft to examine the mine; a six-inch air pipe extends along the side of the ladders in the escapement shaft; the air-compressor was running at the time; just as Baker was about to come up the ladder the air pipe burst, the ladders and platforms were knocked out for some distance, the timber falling on Baker, causing his death.

September 12, 1900, Angelo Alexander, miner, aged 38 years, married, was killed by a fall of slate in the Wabash Coal Co.'s mine, Dawson, Sangamon county.

October 2, 1900, Albert L. Eckman, driver, aged 19 years, single, was killed in the Consolidated Coal Co.'s mine at Hornsby, Macoupin county. It was supposed he was struck by a cross timber falling on him in the roadway.

October 24, 1900, John Casey, mine manager, aged 25 years, single, was killed by being caught by mine cars while engaged in breaking in an untrained mule, in the Williamsville Coal Co.'s mine at Selbytown, Sangamon county.

October 24, 1900, Jesse Boswell, miner, aged 22 years, single, was killed in the Greenridge Mining Co,'s mine, Greenridge, Macoupin county, by a fall of clod at the working face of his room.

November 14, 1900, Joseph Thomas, cartman, aged 22 years, married, was killed at the Consolidated Coal Co.'s No. 8 mine, Mt. Olive, Macoupin county. He was crossing the railroad track in his cart, when he fell out and received injuries which caused his death.

December 6, 1900, John Benedict, miner, aged 62 years, married, was killed by a premature blast in the Riverton Coal Co.'s mine at Riverton, Sangamon county.

December 14, 1900, Michael Whalen, mine examiner, aged 40 years, married, was killed by a fall of rock in the Greenridge Mining Co.'s mine, Greenridge, Macoupin county. It is supposed he was examining the place, where the rock fell.

December 18, 1900, William Whitas, miner, aged 53 years, married, was killed in the Nilwood Carbon Coal Co.'s mine, Nilwood, Macoupin county, by a premature blast.

January 3, 1901, Charles Smith, driver, aged 18 years, single, was killed by being thrown from mine cars in coming down a grade in the Riverton Coal Co.'s No. 2 mine, Riverton, Sangamon county.

January 22, 1901, Anton Endijon, miner, aged 43 years, married, was killed by a fall of clod at the working face of his room, in the Carlinville Coal Co.'s mine, Carlinville, Macoupin county.

February 4, 1901, Joseph Alberle, miner, aged 63 years, married, was killed by a fall of slate at the working face of his room, in the Consolidated Coal Co.'s mine No. 8, at Mt. Olive, Macoupin county.

February 7, 1901, Fred Clanvert, miner, aged 45 years, single, was badly injured by a premature blast, in the Chicago-Virden Coal Co.'s No. 3 mine, Chatham, Sangamon county. He died two days after the accident, in St. John's Hospital, Springfield.

March 4, 1901, Michael Monghan, miner, aged 60 years, married, was killed by a premature blast in the "A" shaft of the Citizens' Coal & Mining Co., Springfield, Sangamon county. He leaves two children, grown.

April 9, 1901, John Swaggert, miner, aged 50 years, single, was killed by a premature blast, in the West End Coal Co.'s mine, Springfield, Sangamon county.

April 29, 1901, William Becker, miner, aged 46 years, married, was killed by a blast in the Clear Lake Coöperative Coal Co.'s mine, Bissell, Sangamon county.

April 29, 1901, Frank Becker, miner, aged 16 years, son of William Becker, working with his father, was killed by the same blast that killed his father. The blast came from the working place adjoining; some mistake was made in not giving proper notice to the Beckers that the blast was to be fired.

Following will be found the various schedules of the mining counties, also tables showing the number and description of each fatal and non-fatal accident for the district.

Respectfully submitted,

WALTON RUTLEDGE,
State Inspector of Mines, Fifth District.

Alton.

Fatal Casualties—Fifth District—July 1, 1901.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widow.	Children.	Single.	Depend'nts	Cause of Accident.
1900.										
Aug. 13	S. P. Baker	37	Mine exam..	Gillespie	1	1	2	..	3	Bursting air pipe
Sep. 12	Angelo Alexander	38	Miner	Dawson	1	1	2	..	3	Falling slate
Oct. 2	A. L. Eckman	19	Driver	Hornsby	..	..	..	1	..	Falling crossbar
24	John Casey	25	Mine manag	Selbytown	..	..	..	1	..	Pit cars
24	Jesse Boswell	22	Miner	Greenridge	..	..	..	1	..	Falling clod
Nov. 14	Joseph Thomas	22	Cartman	Mt. Olive	1	1	2	..	3	Falling out of cart
6	John Benedict	62	Miner	Riverton	1	..	4	..	1	Premature blast
14	Mich Whalen	40	Mine exam..	Greenridge	1	1	6	..	7	Falling of rock
18	Wm. Whitas	53	Miner	Nilwood	1	1	5	..	6	Premature blast
1901.										
Jan. 3	Chas. Smith	18	Driver	Riverton	..	..	..	1	..	Pit cars
22	Anton Endijon	43	Miner	Carlinville	1	1	7	..	8	Falling clod
Feb. 4	Jos. Alberle	63	"	Mt. Olive	1	1	2	..	3	Falling slate
7	Fred Clanvert	45	"	Chatham	..	..	..	1	..	Premature blast
Mar. 4	Michael Monghan	60	"	Springfield	1	..	2	..	2	"
Apr. 9	John Swaggert	50	"	"	..	..	..	1	..	"
29	Wm. Becker	46	"	Bissell	1	1	3	..	4	"
29	Frank Becker	16	"	"	..	..	..	1	..	"
	Totals	..			10	8	35	7	40	

Recapitulation of Fatal Casualties—Fifth District—July 1, 1901.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Bissell	2	Cartman	1	Bursting air pipe	1	Carlinville	1
Chatham	1	Miners	11	Falling crossbar	1	Chi.-Virden C. Co., 3.	1
Carlinville	1	Mine ex'min'r	2	Falling clod	2	Citizens' Coal M. Co.	1
Dawson	1	Mine manager	1	Falling out of cart	1	Clear Lake C. C. Co.	2
Gillespie	1	Drivers	2	Falling rock	1	Consolidated Coal Co	2
Greenridge	2			Falling slate	2	Consol. Coal Co., 8	2
Hornsby	1			Pit cars	2	Greenridge M. Co.	2
Mt. Olive	2			Premature blasts	7	Nilwood Car. Coal Co	1
Nilwood	1					Riverton C. Co., No. 2	2
Riverton	2					Wabash C. Co., No. 1	1
Selbytown	1					West End Coal Co	1
Springfield	2					Williamsv'le Coal Co.	1
Totals	17		17		17		17

Non-Fatal Casualties—Fifth District—July 1, 1901.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. Persons Dependent.	Character and Cause of Injury.	Time Lost—Days.
1900.									
July 6	W. Hebenstreit..	21	Staunton ...	....	1	....	....	Leg broken, pit cars	70
9	Fred Wilder.....	17	Gillespie ...	....	1	....	....	Hip injured, pit cars	40
19	H. Hottenhouse..	64	Springfield..	....	1	....	....	Leg broken, falling down sink ing shaft.....	90
27	Hy Thusen	44	Mt. Olive....	....	1	....	....	Body injured, caught by cage.	60
Aug. 2	Anton Dick	17	Staunton ...	....	1	....	....	Foot injured, falling slate	30
25	Hartwig Fricke..	25	Mt. Olive....	1	....	2	3	Arm broken, falling off pit cars.....	45
30	John Switz.....	50	"	1	....	1	2	Hand injured, falling slate....	30
Sep. 1	Val. Batocietti ...	48	Hornsby....	1	....	2	3	Leg broken, falling coal	90
8	John Dedekar....	28	Staunton ...	....	1	....	....	Hand injured, pit cars	35
10	Curt Sherter.....	23	Mt. Olive....	....	1	....	....	Body injured, pit cars	30
21	Hy Toeche	42	Staunton ...	1	....	2	3	Foot injured, falling coal.....	32
25	Alf Troth.....	40	Virden.....	1	....	3	4	Back injured, pit cars.....	30
Oct. 6	John Vaytille	26	Greenridge.	1	....	1	2	Leg broken, pit cars.....	100
11	Paul Schwenke..	35	Mt. Olive....	1	....	2	3	Leg broken, falling coal	70
16	Hy White.....	35	"	1	....	3	4	Arm broken, mining machine	95
30	Matt Huff	30	Springfield..	1	....	2	3	Leg broken, premature blast.	90
Nov. 2	Hille Borg.....	26	Mt. Olive....	1	....	3	4	Body injured, falling slate ...	35
2	Jno. Bottonzortes	35	Springfield..	1	....	3	4	Body injured, premature blast	32
2	John Brusick	28	"	....	1	....	....	" "	38
3	Mike Reoda	30	Riverton....	....	1	....	....	Foot injured, falling coal....	35
7	Louis Dolheck ...	40	Selbytown..	1	....	2	3	Arm and leg broken, falling slate	*
9	Reg Gardner.....	21	Virden.....	....	1	....	....	Hand injured, pit cars	45
9	John Belger.....	56	"	1	....	....	1	Body injured, falling slate....	*
27	A. W. Carroll	36	Gillespie....	1	....	2	3	Body injured, kicked by mule	32
Dec. 4	Jac Bub	36	Staunton ...	....	1	....	....	Leg injured, pit cars	45
6	David Benedick..	30	Riverton....	1	....	1	2	Body injured, premature blast	42
1901.									
Jan. 5	John Conroy.....	40	Springfield..	1	....	4	5	" "	40
8	Geo. Dresser.....	32	Virden.....	1	....	2	3	Arm broken, pit cars	70
8	B. Meyers	40	Mt. Olive....	1	....	4	5	Arm broken, falling coal.....	45
Feb. 2	Tony Potesta.....	35	Hornsby.....	....	1	....	....	Body injured, falling coal	32
7	John Kerjen.....	37	"	....	1	....	....	Body injured, kicked by mule	52
7	Peter Green.....	35	Auburn	....	1	....	....	Body injured, premature blast	35
13	Alv. Ehrenberg..	17	Staunton ...	....	1	....	....	Legs injured, rope sheave wheel	60
19	Arthur Phillips..	26	Carlinville ..	....	1	....	....	Legs broken, pit car.....	102
19	James Logan.....	24	Springfield..	....	1	....	....	Body injured, pit cars.....	36
Mar. 7	Fred Mori.....	53	Staunton ...	....	1	....	....	Body injured, falling slate....	40
14	John Meyers.....	35	Springfield..	1	....	3	4	Body injured, premature blast	*
15	John Jacobs.....	55	Mt. Olive....	1	....	2	3	Foot injured, falling coal	30
Apr. 22	Alvin Heintz.....	51	Staunton ...	1	....	4	5	Head injured, falling slate ...	52
22	Hy Mull	52	"	1	....	2	3	Body injured, falling slate....	30
May 6	John Hetfleis	56	"	1	....	3	4	Body injured, falling slate....	35
13	Louis Kraft	36	"	1	....	4	5	Ribs broken, falling coal.....	*
16	D. H. Gregory....	35	Springfield..	....	1	....	....	Body injured, premature blast	60
Jun. 22	Geo. Knaggs	18	Staunton ...	....	1	....	....	Head injured, being thrown from trip	*
22	Wm. Roberts.....	24	Virden.....	....	1	....	....	Arm broken, pit cars	*
24	Wm. Dorsdh	19	Staunton ...	....	1	....	....	Foot injured, pit cars.....	*
25	M. Atkinson.....	34	"	....	1	....	....	Body injured, pit cars.....	*

* Not recovered July 1, 1901.

Total number of men injured	47
Not recovered July 1, 1901	8
Number recovered	39
Time lost by men recovered	2,030 days
Average time lost by men recovered	43.2 "

Recapitulation of Non-Fatal Casualties—Fifth District—1901.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Auburn	1	Cagers	2	Cages	1	Black Diamond C. Co	1
Carlinville	1	Drivers	11	Falling down shaft	1	Carlinville Coal Co.	1
Gillespie	2	Gripmen	1	Falling slate	9	Capital Coöp. Coal Co	1
Greenridge	1	Laborers	1	Falling coal	8	Chi.-Vird. Coal Co., 1	2
Hornsby	3	Miners	25	Kicked by mule	1	" " 2	1
Mt. Olive	9	Mac. runners.	4	Mining machines	1	Citizens' Coal Co	1
Riverton	2	Sinkers	1	Pit cars	17	Consolidat'd Coal Co.	
Selbytown	1	Trappers	1	Premature blasts	8	(Hornsby)	3
Staunton	14	Timbermen	1	Rope and sheave		Consolidat'd Coal Co.	
Springfield	8			wheel	1	(Gillespie)	2
Virden	5					Cons. Coal Co., No. 6	10
						" No. 7	4
						" No 8	1
						" No. 10	5
						Greenridge Min'g Co.	1
						Jones & Adams Co	2
						Junction Mining Co.	1
						Madison C. Co., No. 5	3
						Riverton C. Co., No. 2	2
						Sangamon Coal Co	1
						Virden Coal Co	3
						West End Coal Co	1
						Williamsville CoalCo	1
Totals	47		47		47		47

Table Showing the Nature of Injuries, Number of Persons Injured, Dependents, Time Lost, with Averages and Percentages—Fifth District—1901.

Nature of Injuries.	Number.	Married.	Single.	Dependents.	Time Lost.		Per cent of injuries.
					Total days.	Average days.	
Arm broken	5	4	1	15	255	51	10.6
Arm and leg broken	1	1	.....	3	90	90	2.12
Back injured	1	1	.....	4	30	30	2.12
Body injured	19	9	10	60	599	31.5	40.42
Feet injured	5	2	3	6	127	25.4	10.6
Hands injured	3	1	2	2	110	36.6	6.3
Head injured	2	1	1	5	32	16	4.3
Hips injured	1	.....	1	.....	40	40	2.12
Legs broken	7	5	2	11	612	87.5	15
Leg injured	2	.....	2	.....	105	52.5	4.3
Ribs broken	1	1	.....	5	40	30	2.12
Total	47	25	22	81	2,030	43.2	100.00

Brown County—Fifth District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Otis Buller	Mt. Sterling	100	.....	100	.....	$175
2	Wm. Lindsey	"	280	.....	280	.....	490
3	Jas. Alexander	"	48	.....	48	.....	84
4	John Geisler	"	180	.....	180	.....	315
5	John Poppleston	"	100	.....	100	.....	175
6	Henry Friday	Ripley	152	.....	152	.....	266
7	Henry Carnicle	"	292	.....	292	.....	511
8	Cal Clayton	"	36	.....	36	.....	63
9	E. R. Kendrick	Marden	200	.....	200	.....	350
10	J. D. Gross	Camp Point	142	.....	142	.....	249
11	Strip mines	.....	*420	.....	420	.....	735
	Totals	.....	1,950	.....	1,950	.....	$3,413
	Averages	.....	.....	.....	.....	.....	.....

Mines in 1900, 19.
New mines, none.
Abandoned mines, 9.
Mines in 1901, 10.
* Strip mines.

Calhoun County—Fifth District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Thomas Press Brick Co.	Golden Eagle.	5,204	.....	5,204	.....	$5,204
	Totals	.....	5,204	.....	5,204	.....	$5,204
	Averages	.....	.....	.....	.....	.....	.....

Mines in 1900, 1.
New mines, none.
Abandoned mines, none.
Mines in 1901, 1.

Brown County, Fifth District—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	.....	100	52	100	.....	$1.00	.....	2	.....	....	....	2	1
.....	.....	280	226	280	.....	1.00	.....	1	.....	....	....	1	2
.....	.....	48	50	48	.....	1.00	.....	1	.....	....	....	1	3
.....	.....	180	100	189	.....	1.00	.....	2	.....	....	....	2	4
.....	.....	100	80	100	.....	1.00	.....	1	.....	....	....	1	5
.....	.....	152	135	152	.....	1.00	.....	1	.....	....	....	1	6
.....	.....	292	126	292	.....	1.00	.....	2	.....	....	....	2	7
.....	.....	36	30	36	.....	1.00	.....	1	.....	....	....	1	8
.....	.....	200	125	200	.....	1.00	.....	2	.....	....	....	2	9
.....	.....	142	140	142	.....	1.00	.....	1	.....	....	....	1	10
.....	.....	420	....	420	.....	.....	.....	.....	.....	....	....	.....	11
.....	.....	1,950	....	1,950	.....	.....	.....	14	.....	....	....	14	
.....	.....	.....	106	.....	.....	$1.00	.....	.....	.....	....	....	.....	

Calhoun County, Fifth District—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	.....	5,204	224	.....	5,204	.....	$0.37	16	3	....	3	22	1
.....	.....	5,204	....	.....	5,204	.....	.....	16	3	....	3	22	
.....	.....	.....	224	.....	.....	.....	$0.37	.....	.....	....	....	.....	

Greene County—Fifth District—1901.

Number.	Name of Operator.	Postoffice Address of Mines.	Output—Tons. Total.	Lump.	Other grades.	Average value of lump coal at the mine.	Aggregate value of total product.
1	Thos. Griffiths	Whitehall	2,880		2,880		$4,320
2	A. B. Simmons	Roodhouse	326		326		489
3	Jas. Little	"	1,150		1,150		1,725
4	Ed Axley	"	1,400		1,400		2,100
5	S. D. Hudson	"	1,050		1,050		1,575
6	Ed Griffiths	"	2,100		2,100		3,150
7	John T. Revis	"	2,500		2,500		3,750
8	Chas. Simmons	"	820		850		1,230
9	Geo. Metford	"	175		175		263
10	Columbus Cummings	"	182		182		273
11	Jas. Bigley	"	210		210		315
12	Henry Thompson	"	172		173		258
13	Sowers & Brown	"	268		268		402
	Totals		13,233		13,233		$19,850
	Averages						

Mines in 1900, 9.
New mines, 7.
Abandoned mines, 3.
Mines in 1901, 13.

Jersey County, Fifth District—Concluded.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons. Total.	Lump.	Other grades.	Average value of lump coal at the mine.	Aggregate value of total product.
1	Frank Hubeuer	Brighton	402		402		$ 603
2	Ed Springman	"	320		320		480
3	Andrew Williamson	"	386		386		579
4	Ed Fitzimmons	"	186		186		279
5	E. Harnish	"	285		285		428
6	A. Cairns	"	152		152		228
7	Sheir & Wagenglass	"	160		160		240
8	Henry Geisler	"	100		100		150
9	John Bahler	"	80		80		120
10	Fisher & Budd	"	720		720		1,080
	Totals		2,791		2,791		$4,187
	Averages						

Mines in 1900, 8.
New mines, 3.
Abandoned mines, 1.
Mines in 1901, 10.

Greene County, Fifth District—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	.....	2,880	240	2,880	.....	$1.00	.....	8	.....	....	1	9	1
.....	.....	326	90	326	.....	1.00	.....	3	.....	....	1	4	2
.....	.....	1,150	192	1,150	.....	1.00	.....	3	.....	....	1	4	3
.....	.....	1,400	200	1,400	.....	1.00	.....	3	.....	....	1	4	4
.....	.....	1,050	200	1,050	.....	1.00	.....	3	.....	....	1	4	5
.....	.....	2,100	220	2,100	.....	1.00	.....	5	.....	....	1	6	6
.....	.....	2,500	225	2,500	.....	1.00	.....	6	.....	....	1	7	7
.....	.....	820	230	820	.....	1.00	.....	3	.....	....	1	4	8
.....	.....	175	175	175	.....	1.00	.....	1	.....	....	....	1	9
.....	.....	182	182	182	.....	1.00	.....	1	.....	....	....	1	10
.....	.....	210	200	210	.....	1.00	.....	1	.....	....	....	1	11
.....	.....	172	146	172	.....	1.00	.....	1	.....	....	....	1	12
.....	.....	268	150	268	.....	1.00	.....	2	.....	....	....	2	13
.....	.....	13,233	....	13,233	.....	.....	.....	40	.....	....	8	48	
.....	.....	.....	189	.....	.....	$1.00	.....	.....	.....	....	....	.....	

Jersey County—Fifth District—1901.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	.....	402	102	402	.....	$0.87½	.....	2	.....	....	1	3	1
.....	.....	320	90	320	.....	.87½	.....	2	.....	....	....	2	2
.....	.....	386	110	386	.....	.87½	.....	2	.....	....	....	2	3
.....	.....	186	80	186	.....	.87½	.....	2	.....	....	....	2	4
.....	.....	285	92	285	.....	.87½	.....	2	.....	....	....	2	5
.....	.....	152	125	152	.....	.87½	.....	1	.....	....	....	1	6
.....	.....	160	80	160	.....	.87½	.....	2	.....	....	....	2	7
.....	.....	100	92	100	.....	.87½	.....	1	.....	....	....	1	8
.....	.....	80	75	80	.....	.87½	.....	1	.....	....	....	1	9
.....	.....	720	220	720	.....	.87½	.....	3	.....	....	1	4	10
.....	.....	2,791	....	2,791	.....	.....	.....	18	.....	....	2	20	
.....	.....	.....	107	.....	.....	$0.87½	.....	.....	.....	....	....	.....	

Macoupin County—Fifth District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons. Total.	Lump.	Other grades.	Average value of lump coal at the mine.	Aggregate value of total product.
1	Consolidated Coal Co., No. 6	Stanton	251,525	90,674	160,851	$0.95	$201,067
2	Consolidated Coal Co., No. 7	"	223,177	134,429	88,748	.95	180,673
3	Consolidated Coal Co., No. 8	Mt. Olive	218,297	100,195	118,102	.95	176,928
4	Consolidated Coal Co., No. 10	"	200,340	124,140	76,200	.95	161,557
5	Consolidated Coal Co	Gillespie	78,418	48,091	30,327	1.20	72,627
6	Consolidated Coal Co	Hornsby	60,559	44,368	16,191	1.20	56,539
7	Wm. Neil & Co. (Lessee)	Bunker Hill	6,252	4,822	1,430	1.62	9,009
8	Carlinville Coal Co	Carlinville	94,671	45,631	49,040	1.20	83,782
9	Nilwood Carbon Coal Co	Nilwood	43,721	36,126	7,595	1.00	39,200
10	Greenridge Mining Co	Girard	146,431	59,169	87,262	1.00	116,532
11	Girard Coal Co	"	84,544	35,893	48,651	.90	63,516
12	Virden Coal Co	Virden	147,850	10,000	137,850	1.00	112,280
13	Chic.-Virden Coal Co., No. 1	"	313,228	198,204	115,024	1.01	268,570
14	Madison Coal Co., No. 5	Mt. Olive	242,846	150,368	92,478	.95	179,841
15	W. H. A. Bodi	* Chesterfield	1,322	1,322	.....	1.50	1,983
16	Thos. Rand	* "	720	720	.....	1.50	1,080
17	Davis Bros	* "	410	410	.....	1.50	615
18	John Harbour Jun	* "	55	55	.....	1.50	83
19	G. B. Loper	* "	110	110	.....	1.50	165
20	Lueking Bros	Fosterburg	843	843	.....	1.25	1,054
	Totals		2,115,319	1,085,570	1,029,749	.....	$1,726,749
	Averages		.....	.....	.....	$1.00	.....

Mines in 1900, 19.
New mines, 3.
Abandoned mines, 2.
Mines in 1901, 20.
* Pocket coal.

Morgan County—Fifth District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons. Total.	Lump.	Other grades.	Average value of lump coal at the mine.	Aggregate value of total product.
1	F. Wagstaffe	Murryville	2,120	.....	2,120	.....	$3,180
2	W. T. Fisher	"	927	.....	927	.....	1,391
	Totals		3,047	.....	3,047	.....	$4,571
	Averages		.....	.....	.....	.....	.....

Mines in 1900, 3.
New mines, none.
Abandoned mines, 1.
Mines in 1901, 2.

Macoupin County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
198,752	32,359	6,237	230	.....	251,525	.....	$0.42	182	25	20	30	257	1
210,648	.....	789	233	.....	223,177	.....	.42	168	20	16	25	229	2
209,614	.....	156	217	.....	218,297	.....	.42	176	18	10	22	226	3
181,948	.....	7,257	209	.....	200,340	.....	.42	166	20	20	20	226	4
58,709	9,784	2,903	142	.....	78,418	.....	.42	80	15	3	15	113	5
50,719	.....	1,111	157	.....	60,559	.....	.42	79	14	4	14	102	6
.....	.....	5,939	250	.....	6,252	.....	.50	8	2	....	3	13	7
76,040	1,436	13,089	201	94,671	.....	$0.49	.....	76	16	2	14	108	8
40,651	.....	1,535	205	43,721	.....	.49	.....	47	7	6	5	65	9
142,292	.....	1,974	244	146,431	.....	.49	.....	135	23	3	17	178	10
41,234	57,838	9,997	182	.....	84,544	.....	.42	79	16	3	15	113	11
136,336	.....	10,124	250	147,850	.....	.49	.....	120	25	5	13	163	12
303,493	.....	3,959	244	.....	313,228	.....	.42	255	40	9	29	333	13
211,160	22,202	1,054	227	.....	242,846	.....	.42	156	24	8	22	210	14
.....	.....	1,322	250	1,322	.....	.81½	.....	4	.....	....	1	5	15
.....	.....	720	232	720	.....	.81½	.....	3	.....	....	1	4	16
.....	.....	410	80	410	.....	.81½	.....	3	.....	....	1	4	17
.....	.....	55	60	55	.....	.81½	.....	2	.....	....	1	3	18
.....	.....	110	90	110	.....	.81½	.....	2	.....	....	1	3	19
.....	.....	843	175	843	.....	.81½	.....	2	.....	....	1	3	20
1,861,596	93,519	69,584	....	436,133	1,679,186	.....	.....	1,734	265	109	250	2,358	
.....	.....	.....	194	.....	.....	$0.493	$0.42	.....	.....	....	....	.....	

Morgan County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	.....	2,120	290	2,120	.....	$0.87½	.....	7	.....	....	1	8	1
.....	.....	927	206	927	.....	.87½	.....	4	.....	....	1	5	2
.....	.....	3,047	....	3,047	.....	.....	.....	11	.....	....	2	13	
.....	.....	.....	248	.....	.....	$0.87½	.....	.....	.....	....	....	.....	

Montgomery County—Fifth District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Coffeen Coal & C. Co.....	† Coffeen.....	8,000	4,800	3,200	$0.90	$ 5,280
2	Hillsboro Coal Co	Hillsboro.....	110,056	77,040	33,016	.90	87,598
3	Litchfield M. & P. Co.....	Litchfield	66,257	31,215	35,042	1.20	67,571
4	Montgomery Coal Co.....	Paisley.....	139,900	83,900	56,000	.95	101,185
5	Progressive Coal Co.....	Raymond.....	4,038	2,813	1,225	1.95	6,381
	Totals.....	.....	328,251	199,868	128,483	.....	$268,088
	Averages.....	.....	.....	.....	.....	$0.983	.....

Mines in 1900, 5.
New mines, none.
Abandoned mines, none.
Mines in 1901, 5.
* Mine only worked 40 days.

Montgomery County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
6,500	700	500	40	8,000	.....	$0.49	.....	130	15	3	12	160	1
99,902	.....	6,981	190	.....	110,056	.....	$0.42	100	21	3	16	140	2
40,095	8,084	14,504	241	66,257	.....	.49	.....	70	26	3	11	110	3
134,200	.....	2,050	249	139,900	.....	.49	.....	117	21	11	20	169	4
330	.....	3,516	261	4,038	.....	.77	.....	9	.....	....	2	11	5
281,027	8,784	27,551	....	218,195	110,056	.....	.....	426	83	20	61	590	
.....	.....	.....	196	.....	.....	$0.493	$0.42	.....	.....	....	....	.....	

Sangamon County—Fifth District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other Grades.		
1	Chi., Wil. & V. C. Co., No. 1	Thayer	57,085	20,383	36,702	$0.93	39,557
2	Auburn & Alton Coal Co.	Auburn	12,000	3,500	8,500	1.00	9,300
3	Chicago-Virden C. Co., No. 2	"	254,533	48,716	205,817	1.02	208,124
4	Chicago-Virden C. Co., No. 3	Chatham	111,700	48,477	63,223	1.02	93,252
5	Barclay Coal & M. Co.	Barclay	60,606	23,709	36,897	1.22	59,135
6	Cantrall Co-op. Coal Co.	Cantrall	95,232	45,322	49,910	1.06	85,981
7	Wabash Coal Co., No. 1	Dawson	89,958	33,582	56,376	1.10	80,262
8	Black Diamond C. & T. Co.	Springfield	196,385	43,142	153,243	1.10	172,697
9	Junction Mining Co.	"	116,451	35,655	80,796	1.25	112,609
10	Woodside Coal Co.	"	100,087	25,171	74,916	1.15	92,232
11	Victor Coal Co.	Pawnee	8,762	3,651	5,111	1.10	7,528
12	Madison Coal Co., No. 6	Divernon	118,920	42,680	76,240	.95	71,042
13	Springfield & P. Pl. C. C.	PleasantPlain	5,774	3,325	2,449	1.35	5,933
14	Clear Lake Co-op. C. C.	Bissell	78,232	40,000	38,232	.90	61,246
15	Riverton Coal Co., No. 1	Riverton	87,288	41,882	45,406	1.08	80,028
16	Riverton Coal Co., No. 2	"	248,597	131,260	117,337	1.11	222,063
17	Spaulding Coal Co	Spaulding	91,967	73,574	18,393	1.00	80,331
18	Capitol Co-op. C. Co., No. 1.	Springfield	21,574	14,730	6,844	1.00	19,234
19	Capitol Co-op. C. Co., No. 2.	"	162,137	.....	162,137	.....	124,024
20	Citizens' Coal M. Co., A.	"	87,031	26,919	60,112	1.11	75,254
21	Citizens' Coal M. Co., B.	"	72,130	45,389	26,741	1.13	66,759
22	Sangamon Coal Co.	"	134,705	51,552	83,153	1.10	118,695
23	Springfield Co-op. Coal Co.	"	115,000	93,500	21,500	1.10	110,925
24	Jones & Adams Coal Co.	"	120,637	50,100	70,537	1.10	103,825
25	Starnes Coal M. Co.	"	133,981	35,932	98,049	1.25	127,296
26	Republic Iron & S. Co	Ridgely	115,351	42,741	72,610	1.14	100,186
27	West End Coal Co.	Springfield	132,470	79,482	52,988	1.10	122,824
28	Williamsville Coal Co.	Selbytown	80,740	40,370	40,370	.95	64,378
29	Lincoln Park C. M. Co.	Springfield	8,940	4,808	4,132	1.75	13,109
30	J. P. Gorden	Saulsbury	950	700	250	1.75	1,375
	Totals	.....	2,919,223	1,150,252	1,768,971	.....	$2,529,258
	Averages	.....	.....	.....	.....	$1.082	.....

Sangamon County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
52,670	.....	788	220	9,564	47,521	$0.49	$0.42	160	20	6	20	206	1
10,250	.....	1,000	100	12,000	.....	.49	.....	22	8	....	5	35	2
246,425	.....	3,989	216	254,533	.....	.49	.....	240	47	6	18	311	3
107,068	.....	1,972	224	111,700	.....	.49	.....	115	35	1	16	167	4
53,816	.....	1,043	184	60,606	.....	.497	.....	55	20	2	11	88	5
73,255	17,605	2,012	195	95,232	.....	.497	.....	90	19	2	14	125	6
79,904	.....	5,839	172	89,958	.....	.497	.....	83	28	4	13	128	7
179,557	.....	12,828	224	196,385	.....	.497	.....	137	27	6	24	194	8
108,700	.....	3,679	208	116,451	.....	.497	.....	130	20	4	10	164	9
62,225	24,662	9,600	217	100,087	.....	.497	.....	90	20	....	18	128	10
8,000	180	407	200	8,762	.....	.49	.....	10	3	....	3	16	11
111,949	.....	1,597	254	.....	118,920	.....	.42	60	21	9	24	114	12
4,704	.....	590	180	5,774	.....	.497	.....	15	4	....	4	23	13
76,000	.....	1,700	160	78,232	.....	.497	.....	72	13	2	11	98	14
80,674	.....	4,071	220	87,288	.....	.497	.....	70	15	5	15	105	15
236,466	.....	.....	225	248,597	.....	.497	.....	203	24	13	22	262	16
85,621	.....	4,506	223	91,967	.....	.497	.....	100	13	2	10	125	17
9,922	9,264	.....	200	21,574	.....	.497	.....	25	7	1	7	40	18
93,317	10,626	47,175	285	162,137	.....	.497	.....	100	26	2	15	143	19
64,474	17,652	3,230	210	87,031	.....	.497	.....	72	13	3	11	99	20
69,673	.....	1,097	160	72,130	.....	.497	.....	75	11	4	10	100	21
120,482	.....	10,223	216	134,705	.....	.497	.....	116	29	3	11	159	22
88,000	.....	23,500	215	115,000	.....	.497	.....	100	13	3	14	130	23
110,473	273	5,988	220	120,637	.....	.497	.....	160	20	6	21	207	24
128,934	.....	1,147	177	133,981	.....	.497	.....	100	22	7	12	141	25
108,620	.....	3,827	218	115,351	.....	.497	.....	95	25	5	20	145	26
114,430	.....	14,240	225	132,470	.....	.497	.....	93	15	2	15	125	27
73,740	.....	5,150	250	80,740	.....	.497	.....	65	15	3	12	95	28
.....	.....	8,445	153	8,940	.....	.497	.....	12	3	2	7	24	29
.....	.....	925	175	950	.....	.497	.....	2	.....	....	1	3	30
2,559,349	80,262	180,568	....	2,752,782	166,441	.....	.....	2,667	536	103	394	3,700	
.....	.....	.....	204	....	.....	$0.496	$0.42	.....	.....	....	....	.....	

Scott County—Fifth District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of product
			Total.	Lump.	Other grades.		
1	Wm. H. Bates & Co.	Winchester	23,153	22,153	1,000	$1.45	$32,621
2	Jackson Jones	"	702	702	.....	1.50	1,053
3	Wm. G. Parker	"	1,213	1,213	.....	1.50	1,819
4	John McGuive	Alsey	1,218	1,218	.....	1.50	1,827
5	E. Berry	Exeter	100	100	.....	1.75	175
6	P. Berry	"	150	150	.....	1.75	262
7	M. Six	"	140	140	.....	1.75	245
8	H. H. Meier	Bluffs	120	120	.....	1.75	210
9	H. H. Brockhouse	Neelyville	100	100	.....	1.75	175
10	Ed. Ramft	Bluffs	560	560	.....	1.75	980
11	T. R. Biggers	Chapin	30	30	.....	1.75	52
	Totals	.....	27,486	26,486	1,000	.....	$39,434
	Averages	.....	.....	.....	.....	$1.47	.....

Mines in 1900, 9.
New mines, 3.
Abandoned mines, 1.
Mines in 1901, 11.

Scott County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	20,053	2,600	306	23,153	.....	$1.00	.....	38	5	....	6	49	1
.....	.....	702	187	702	.....	1.00	.....	3	.....	....	....	3	2
.....	.....	1,213	150	1,213	.....	1.00	.....	4	.....	....	1	5	3
.....	.....	1,218	245	1,218	.....	1.00	.....	5	.....	....	1	6	4
.....	.....	100	100	100	.....	1.00	.....	1	.....	....	....	1	5
.....	.....	150	140	150	.....	1.00	.....	1	.....	....	....	1	6
.....	.....	140	90	140	.....	1.00	.....	1	.....	....	....	1	7
.....	.....	120	60	120	.....	1.00	.....	2	.....	....	....	2	8
.....	.....	100	70	100	.....	1.00	.....	1	.....	....	....	1	9
.....	.....	560	180	560	.....	1.00	.....	2	.....	....	....	2	10
.....	.....	30	20	30	.....	1.00	.....	1	.....	....	....	1	11
.....	20,053	6,933	....	27,486	.....	.....	.....	59	5	....	8	72	
.....	.....	.....	141	.....	.....	1.00	.....	.....	.....	....	....	.....	

Recapitulation by Counties—

Counties.	Number of mines.	Number of shipping mines.	No. of mines in local trade.	Total Tons Produced.	Average Value Per Ton at the Mine.						Aggregate value of total product.	Employes.		
					Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Waste.		Number of miners.	All other employés.	Total.
Brown	10	..	10	1,950	.....	$1.75	.....	.....	.....	.....	$ 3,413	14	.....	14
Calhoun	1	..	1	5,204	.....	1.00	.....	.....	.....	.....	5,204	16	6	22
Greene	13	.	13	13,233	.....	1.50	.....	.....	.....	.....	19,850	40	8	48
Jersey	10	..	10	2,791	.....	1.50	.....	.....	.....	.....	4,187	18	2	20
Macoupin	20	13	7	2,115,319	$1.00	.831	.954	.825	.396	.114	1,727,215	1,734	624	2,358
Montgomery	5	5	...	328,251	.983	.915	.....	.766	.326	.184	268,012	426	164	590
Morgan	2	..	2	3,047	.....	1.50	.....	.....	.....	.....	4,571	11	2	13
Sangamon	30	28	2	2,919,223	1.083	.868	1.147	.862	.456	.282	2,529,203	2,667	1,033	3,700
Scott	11	..	11	27,486	1.47	.....	.....	.....	.....	.50	39,434	59	13	72
Totals	102	46	56	5,416,504	.....	.....	.....	.....	.....	.....	$4,601,089	4,985	1,852	6,837
Averages	...	..	...	.....	$1.043	$0.867	$1.016	$0.833	$0.421	$0.227	.....	.....	.....	.....

Whole number of mines reported in 1900, 101.
Number of new mines opened during the year, 18.
Number of mines exhausted or abandoned during the year, 17.
Whole number of mines reported for 1901, 102.

Fifth District—1901.

Disposition of Output—Tons.				Average number of days in operation.	How Mined—Tons.		Prices Paid Per Ton for—		Number of kegs of powder used for blasting coal.	Steam Boilers.	
Loaded on cars for shipment.	Supplied to locomotives at mines.	Sold to local trade.	Consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.		No. of mines using.	Number in use.
.....	.....	1,950	.....	106	1,950	.....	.....	.....	.....	....	....
.....	.....	.....	5,204	224	.....	5,204	.....	$.037	178	1	2
.....	.....	13,233	.....	189	13,233	.....	$1.00	.....	144	....	....
.....	.....	2,791	.....	107	2,791	.....	0.875	.....	.....	....	....
1,861,596	93,519	69,584	90,620	194	436,133	1,679,186	0.493	.042	26,002	14	80
281,027	8,784	27,551	10,889	196	218,195	110,056	0.495	0.42	4,048	5	18
.....	.....	3,047	.....	248	3,047	.....	.....	.....	.....	....	....
2,559,349	80,262	180,568	99,044	204	2,752,782	166,441	0.496	0.42	108,919	30	95
.....	20,053	6,933	500	141	27,486	.....	.....	.....	858	1	2
4,701,972	202,618	305,657	206,257	175	3,455,617	1,960,887	.....	.....	140,149	51	197
.....	.....	.....	.....	.....	.....	.....	$0.4978	$0.42	.....	....	....

Screened Coal—Brown county, 1,530 tons at $1.00 per ton.
Morgan county, 3,047 " 0.875 "
Scott county, 27,486 " 1.00 "

District.....32,063 tons at....988 cents per ton.

Note:—420 tons mined by hand and paid for by the day.

SIXTH INSPECTION DISTRICT—1901.

Counties: Bond, Clinton, Madison, Marion, St. Clair.

JOHN DUNLOP, *Inspector*, Centralia.

HON. DAVID ROSS, *Secretary*,
State Bureau of Labor Statistics, Springfield, Illinois.

SIR:—In compliance with an act of the General Assembly of this State, defining the duties of State inspectors of coal mines, and providing for the better preservation of the health and safety of persons employed in the mines of the State, I have the honor to herewith submit to you the sixth annual report of the Sixth Inspection District, for the year ended June 30, 1901. The coal producing counties of the district are St. Clair, Madison, Clinton, Marion and Bond. This report gives tabulated statements, by counties, of the number of mines operated, giving the names of operators and their postoffice address; the depth of coal below the surface, and its thickness; the geological number of the seams; a description of the plants of the different mines, showing their methods and systems of producing coal; the total output of all grades of coal and the disposition of the same; the average prices paid per ton for mining; the value of lump and other grades of coal per ton at the mine, and the aggregate value of the output; the number of miners and other employés; the tonnage mined by hand, also by coal cutting machines; the number of machines in use, and how operated; the number of kegs of powder used for blasting coal; the number of accidents, both fatal and non-fatal, and the number of widows and children dependent.

Coal production by counties, showing increase and decrease in each, for the years ended June 30, 1900, and 1901:

COUNTIES.	TOTAL OUTPUT OF ALL GRADES OF COAL, IN TONS.		INCREASE.	DECREASE.
	1900.	1901.		
St. Clair	2,253,883	2,518,847	264,964	.....
Madison	1,441,650	1,595,081	153,431	.....
Clinton	535,601	644,664	109,063	.....
Marion	840,814	829,326	.....	11,488
Bond	163,204	208,668	45,464	.....
Total	5,235,152	5,796,586	572,922	11,488
Decrease	.....	.....	11,488	.....
Total increase	.....	.....	561,434	.....

Four counties, Madison, St. Clair, Clinton and Bond, show an increase of 572,922 tons, while Marion county shows a decrease of 11,488 tons, making an increase for the district of 561,434 tons.

There seems to be an impression among some of the operators that they are not required to give the returns as requested by the inspector, one operator in Madison county returned the schedule showing the total output of the mine to be 60,000 tons; carefully examining the returns it was found that some of the figures were incorrect. A request was made for an accurate report; another was furnished, increasing the output to 80,000 tons, which may or may not be correct, as the number of men employed and actual days worked would indicate that the output should be over 100,000 tons. This case is cited to show that some operators are inclined to make incorrect returns.

The following is a summary taken from the statistical tables for the fiscal year 1901:

Number of counties in which coal is produced	5
Number of mines	110
Shipping mines	77
Local mines	33
New mines	10
Abandoned mines	2
Total tonnage	5,796,586
Tons of lump coal	3,114,341
Tons of other grades	2,682,245
Tons shipped	4,940,727
Tons supplied to locomotives	274,299
Tons sold to local trade	255,058
Tons consumed and wasted at the mines	326,502
Average value of lump coal per ton at the mine	$0.94
Aggregate value of total product	$4,553,967
Number of miners	4,873
Number of other employés	1,998
Total number of employes	6,871
Average number of days of active operation for all mines	218
Number of kegs of powder used	98,341
Number of steam boilers in use at mines	236
Number of mines using machines	30
Number of machines in use	218
Total tons cut by machines	2,780,594
Total tons mined by hand	3,015,992
Fatal accidents	22
Non-fatal accidents	68
Number of wives made widows	14
Number of children left fatherless	20
Number of tons produced to each fatal accident	263,481
Number of tons produced to each non-fatal accident	86,516
Number of persons employed to each fatal accident	312
Number of persons employed to each non-fatal accident	102

Comparing the work that has been done during this year with the year 1900, it will be seen from the above statement that the former has been much better. The average number of actual working days this year is 218, against 208 last year; the total number of employés is 6,871, against 5,885 last year, showing an increase of 986.

A sad feature presented in this year's report is the increased number of fatal accidents. Twenty-two persons have lost their lives in and around the mines; 77.27 per cent of these accidents happened at the working face, by falling slate, coal or clod. The principal source of all accidents in this district, both fatal and non-fatal, is due to falling clod, it being of a very brittle nature, gives way without warning. The number of non-fatal accidents as

reported is 26 less than last year; but it must be taken into consideration that only those that had lost thirty days or more are mentioned in this report. Last year the report included all losing one week or more time.

Improvements—The Centralia Mining & Manufacturing company has put in a new fan twenty feet in diameter, replacing one twelve feet in diameter. The company has also put in a second electric motor weighing ten tons, the other being of eight tons weight. Mining machines have been taken out of this mine and a return made to the old system of shooting off the solid.

New Mines—There are ten new mines reported as producing coal this year. Seven of these are shipping mines, the others are for local trade.

The Donk Bros., Coal & Coke Co. has sunk two more shafts in Madison county, one at Troy, the other at Maryville, three miles northeast of Collinsville. The equipment of these shafts is to be the same as No. 1 at Collinsville. Last year's report gives a description of the plant at the latter mine.

The Kerens & Donniewald Coal Co., at Worden, Madison county, has commenced producing coal, and are now at work on the escapement shaft. The equipment is first-class, Litchfield engines, self-dumping cages, and shaker screens, the latter made by the Duncan Foundry Co. of Alton, have been put in.

The Beck-Walker Coal Co., operating what is known as the "Royal Mine," near Belleville, and located on the L. & N. railway, commenced producing coal early in the fiscal year. A description of this plant may be found in last year's report.

The Valley Coal & Mining Co., near Birkner, St. Clair Co., also located on the L. & N. railway, commenced producing coal this year. The first shaft put down by this company was intended for a hoisting shaft, but owing to the unfavorableness of the different strata, additional timber was required to make it secure, thus making it too small for a hoisting shaft, but sufficiently large for an escapement shaft, for which purpose it is now used.

In last year's report mention was made of a new shaft sunk at Marissa. The name of the company at that time was the Superior Coal Co.; the name of this company has been changed, owing to another company of the same name being located on the same railroad, which is now known as the Borders Coal Co. Both shafts are down at this mine, and are fully equipped.

The Vinegar Hill Coal Co., located between New Athens and Lenzburg, St. Clair county, commenced producing coal during the latter part of the year. The escapment shaft is down, and the fan, a "Steine" is now in place. This makes two of these fans in this district; the other is at the Eureka mine, Marissa.

The Lumaghi Coal Co. has put down a new shaft and is at work on the escapement shaft; the mine is located near Collinsville on the Terre Haute & Indianapolis railroad. No coal was taken out during last year, the first coal raised was in August, 1900.

Escapement Shafts—Some trouble has been experienced in requiring the local operators in Madison county to sink escapement shafts. After notifying them several times, they still persisted in refusing to comply with my notice.

Suit was entered against 11 of them; as soon as they found out that they would be prosecuted, all agreed to commence work sinking shafts. With this understanding, I agreed to withdraw the cases, they agreeing to pay all expenses incurred in issuing warrants and serving the same. I am glad to report that work on the shafts is being done as agreed.

Legislation Recommended—I desire to direct your attention to an act passed by the last General Assembly, requiring the State inspectors of mines to test all oils for use in coal mines. The test as required has proved to be very unsatisfactory; the time required in testing oil takes much of the time the inspectors should devote to looking after the condition of the mines. It has been found that oil standing the test has given off more smoke than oil that did not meet the requirements; therefore, I would recommend that a law be enacted that all oils be required to undergo a smoke test.

The time taken in testing oils could be very much reduced if the firms selling oils were required to have shipping stations within the State. At the present time where mines are located, especially in towns where there are a number of merchants, nearly all of them sell oil for use in the mines, and never have more than one barrel on hand at a time; usually there is found to be as many different brands as there are merchants. The difficulty is that as often as a new barrel of oil is received by these merchants, the inspector is requested to come and test it, and no two of them receive oil at the same time. At one place I tested single barrels of oil in five different stores and condemned all of it.

Fatal Accidents—August 2, 1900, T. R. Mitchell, miner, aged 36 years, single, employed at the Mitchell Bros. mine, Prairietown, Madison county, (one of the brothers) was killed by a fall of clod at the working face. His brother had told him to put up a prop to prevent it from falling, but he did not give it any attention, the clod falling with the above result.

August 16, 1900, August Lathner, miner, aged 66 years, married, employed at the White Oak mine of the Consolidated Coal Co., Marissa, St. Clair county, was instantly killed by a fall of clod at the face of his working place. He was a widower and leaves three grown children.

September 4, 1900, Adam Fauz, miner, aged 56 years, married, employed at the Ruby Mining company's mine, Caseyville, St. Clair county, had his collar bone broken by falling coal; he died four days after the accident from heart failure. He was a widower and leaves six grown children.

September 5, 1900, Fred Daesh, miner, aged 32 years, married, employed at the Madison Coal company's mine No. 3, Edwardsville, Madison county, was injured by a fall of coal which caused his death. He leaves a widow and two children.

October 2, 1900, Noah Travis, miner, aged 44 years, married, employed at the Independent Coal company's mine, near Collinsville, Madison county, was killed by flying coal from a shot. He leaves a widow and one child.

October 6, 1900, John Bradley, driver, aged 21 years, single, employed at the Wilderman mine of the Missouri and Illinois Coal Co., was kicked in the abdomen by a mule, in the mine, and died from the injury the next day

October 12, 1900, Hiram Kilpatrick, miner, aged 23 years, married, employed at the Muren Coal and Ice company's No. 1 mine, Belleville, St. Clair county, had his back broken by a fall of slate, from which he died a short time afterwards. He leaves a widow.

October 17, 1900, Frank Stroff, miner, aged 36 years, employed at Donk Bros. Coal and Coke company's mine No. 1, Belleville, St. Clair county, was killed instantly by falling slate; he went to examine his working place, when the slate gave way without warning, with the above result. He leaves a widow and one child.

November 13, 1900, Andrew Pierce, miner, aged 54 years, employed by Joseph Taylor, lessee, at the Mentor mine, of the Consolidated Coal company, O'Fallon, St. Clair county. He was mining a piece of top coal when it gave way, falling on him, injuring his back, from which he died two weeks afterward. He was a widower.

December 11, 1900, Peter Prough, machine helper, aged 31 years, single, employed at the Abbey No. 3 mine of the Consolidated Coal company, Collinsville, Madison county, was instantly killed by a piece of coal falling on him, breaking his neck. He was the only support of his mother, who is a widow.

December 14, 1900, George Doyle, driver, aged 24 years, married, employed at the mine of the Sorento Prospecting and Mining company, Sorento, Bond county, was caught between the top of a loaded car and the roof, causing his immediate death. He leaves a widow and one child.

January 4, 1901, Albert Blaith, miner, aged 36 years, single, employed at the Glendale Coal company's mine No. 1, Belleville, St. Clair county, was instantly killed by falling slate in the mine.

January 12, 1901, David Pyatt, miner, aged 29 years, single, employed at Donk Bros. Coal and Coke company's mine No. 1, Belleville, St. Clair county. He was working in a cross-cut near to the entry face; shots had been prepared in both places, and were lighted at the same time. The men in the entry and cross-cut returned to their places, thinking that all of the shots had exploded. When they were opposite the cross-cut one of the shots went off, and a piece of coal struck Pyatt, who was in front, on the forehead, killing him instantly.

March 7, 1901, John Bifferan, miner, aged 48 years, married, employed in the Rentchler mine of the Missouri and Illinois Coal company, Belleville, St. Clair county, had two ribs broken and died two days after the accident. He leaves a widow and six children.

March 11, 1901, August Garnet, laborer, aged 27 years, married, employed at Donk Bros. Coal and Coke company's mine No. 3, Troy, Madison county; he was engaged in bringing a car down to the mine and fell, the car running over him, causing his death. He leaves a widow.

March 27, 1901, George Ettling, driver, aged 30 years, married, employed at the Avery mine, Freeburg, St. Clair county, was going to the shaft bottom with a trip of loaded cars. He unhooked the mule and tried to hold back the

trip by going in front of it; his feet slipped and caught on a tie; the moving trip passed over him, injuring him about the neck; he died next day. He leaves a widow and two children.

April 3, 1901, August Ackerman, miner, aged 20 years, single, employed at the Home Trade Coal company's mine, Edwardsville, Madison county, was killed by a falling clod.

April 6, 1901, Charles Newton, machine helper, aged 22 years, single, employed at the Beck-Walker Coal company's Royal mine, near Belleville, St. Clair county, was killed instantly by falling coal; he lived at Lenz Station.

May 9, 1901, Henry Williams, miner, aged 28 years, married, employed at the Crown Coal and Tow company's mine No. 4, Belleville, St. Clair county. While mining a piece of coal it gave way, falling on him, injuring his back; he died eight days afterwards. He leaves a widow and two children.

May 29, 1901, James Jarman, miner, aged 52 years, married, employed by the Sorento Prospecting and Mining company, Sorento, Bond county. He had fired a shot, and went back to put up some timbers when a large boulder gave way, falling and killing him instantly. He leaves a widow and five children.

June 1, 1901, T. R. Harris, miner, aged 35 years, married, employed at Donk Bros. Coal and Coke company's mine No. 2, Maryville. Coal was being hoisted with one cage. A loaded car had just been hoisted; two men stepped on the cage to be lowered. The top man had dumped the car and pushed it back, supposing the cage was still at the top landing; it having been lowered, the car went down the shaft, killing Harris and injuring Homer Welch. Harris leaves a widow.

June 13, 1901, Lichard Voss, miner, aged 48 years, married, employed at the Pittenger & Davis mine, Centralia, Marion county. He had prepared and lighted a shot, and was at a place of safety, but the shot being a little longer than usual in going off, he went to see what was the trouble; when in front of it, the shot exploded, killing him instantly. He leaves a widow.

The tables of fatal and non-fatal accidents follow, also the county tables.

Respectfully submitted,

JOHN DUNLOP,

State Mine Inspector of Mines, Sixth District.

CENTRALIA.

Fatal Casualties—Sixth District, July 1, 1901.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widow.	Children.	Single.	Dependent.	Cause of Accident.
1900										
Aug. 2	T. R. Mitchell	36	Miner	Prairietown	..	..	..	1	..	Falling clod
16	August Lathner	66	"	White Oak	1	1	..	..	1	Falling clod
Sept. 4	Adam Fanz	56	"	Caseyville	1	1	..	..	1	Falling coal
5	Fred Daesh	32	"	Edw'sville	1	1	2	..	3	Falling coal
Oct. 2	Noah Travis	44	"	Collinsville	1	1	1	..	2	Flying coal
6	John Bradley	21	Driver	Wilderman	..	..	..	1	..	Kicked by mule
12	Hiram Kilpatrick	23	Miner	Belleville	1	1	..	..	1	Falling slate
17	Frank Stroff	36	"	Collinsville	1	1	1	..	2	Falling slate
Nov. 13	Andrew Pierce	54	"	O'Fallon	1	..	..	..	..	Falling coal
Dec. 11	Peter Prough	31	Mach.helper	Collinsville	..	..	..	1	..	Falling coal
14	Geo. Doyle	24	Driver	Sorento	1	1	1	..	2	Pit car and roof
1901										
Jan. 4	Albert Blaith	32	Miner	Belleville	..	..	..	1	..	Falling slate
12	David Pyatt	29	"	Collinsville	..	..	..	1	..	Flying coal from shot
Mar. 7	John Bifferan	48	"	Rentchler	1	1	6	..	7	Falling slate
11	August Garnett	27	Laborer	Troy	1	1	..	..	1	Run over by pit car
27	Geo. Ettling	30	Driver	Freeburg	1	1	2	..	3	Pit cars
Apr. 3	August Ackerman	20	Miner	Edw'sville	..	..	..	1	..	Falling clod
6	Chas. Newton	22	Mach.helper	Lenz Stat'n.	..	..	..	1	..	Falling coal
May 9	Hy Williams	28	Miner	Belleville	1	1	2	..	3	Falling coal
29	Jas. Jarman	52	"	Sorento	1	1	5	..	6	Falling coal
June 1	T. R. Harris	35	"	Maryville	1	1	..	..	1	Pit car fall'g d'n sh'ft
13	Richard Voss	48	"	Centralia	1	1	..	..	1	Flying coal from shot
	Total	..	..	..	15	14	20	7	32	

Recapitulation of Fatal Accidents—Sixth District, 1901.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Belleville	4	Drivers	3	Falling clod	3	Beck-Walker Coal Co	1
Caseyville	1	Laborer	1	Falling coal	7	Con. Coal Co. (Abby No. 3)	1
Centralia	1	Mach. helper	2	Falling slate	4	Con. Coal Co. (White Oak)	1
Collinsville	4	Miners	16	Flying coal	3	Crown Coal & Iron Co. No. 2	1
Edwardsville	2			Kicked by mule	1	Donk Bros. Coal & Coke Co. No. 1	2
Freeburg	1			Pit cars	2	Donk Bros. Coal & Coke Co. No. 2	1
Lenz Station	1			Pit cars and roof	1	Donk Bros. Coal & Coke Co. No. 3	1
Marissa	1			Pit car falling down shaft	1	Dutch Hollow Coal Co	1
O'Fallon	1					Glendale Coal Co	1
Prairietown	1					Home Trade Coal Co.	1
Rentchler	1					Independent Coal Co.	1
Sorento	2					Jos. Taylor (Mentor)	1
Troy	1					Madison C. Co. No. 3.	1
Wilderman	1					Muren Coal & Ice Co.	1
						Mo. & Ill. Coal Co. (Rentchler)	1
						Mo. & Ill. Coal Co. (Wilderman)	1
						Mitchell Bros	1
						Pettinger & Davis Mg. Co.	1
						Ruby Mg. Co. (Caseyville)	1
						Sorento P. & Mg. Co.	2
Totals	22		22		22		22

Non-Fatal Casualties—Sixth District, July 1, 1901.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of Injury.	Time lost—days.
1900									
July 2	Nat. K. Miller	33	Glen Carbon	1	....	4	5	Leg broken, falling bowlder	45
5	Hy Becker	38	Centralia	1	....	1	2	Leg broken, falling slate	73
Aug. 3	George Swan	37	Edw'sville	1	....	1	2	Back injured, falling slate	60
Sept. 9	Jesse Grieves	19	Lenz Stat'n.	....	1	....	....	Leg broken, falling coal	70
12	Dom. Caviglio	17	Glen Carbon	....	1	....	....	Body inj'd, caught under cage	132
24	Peter Schoenbeck	54	Belleville	1	....	7	4	Thumb injured, falling prop, amputated	90
24	Nicholas Dislal	36	Rentchler	1	....	6	7	Leg broken, falling coal	70
25	D. R. Sappington	38	Edw'sville	....	1	....	....	Leg broken, car	*
29	P. Manees	35	Centralia	1	....	....	1	Body injured, pit car	75
Oct. 3	J. Hartman	24	Freeburg	....	1	....	....	Leg broken between cars and mule	80
3	Eddie Boren	16	Trenton	....	1	....	....	Arm broken between cars and roof	90
5	F. Walker	33	Rentchler	1	....	3	4	Leg broken, falling roof	100
6	Jul. Lamont	36	White Oak	1	....	....	1	Leg broken, falling coal	90
8	H. Pierpont	24	Troy	....	1	....	....	Body injured, cause not given	100
20	Jacob Lill	36	Mascoutah	1	....	6	7	Arm broken, falling clod	75
20	H. Alexander	39	Staunton	1	....	....	....	Collar bone broken, fall'g coal	125
26	Is. Alexander	32	"	....	1	....	....	Leg broken, falling slate	50
31	Wm. Golden	31	Glen Carbon	....	1	....	....	Collar bone broken between car and roof	47
Nov. 2	John Steel	18	Centralia	....	1	....	....	Fingers cut off	30
8	Josiah Mason	18	Edw'sville	....	1	....	....	Ribs broken, falling coal	36
19	Ed Williams	34	Centralia	....	1	....	....	Toe cut off, pit car	30
20	J. L. Hagler	40	Troy	....	1	....	....	Body injured, cause not given	125
24	Thos. Mundy	19	Sandoval	....	1	....	....	Ankle broken, pit cars	45
24	John Barcus	23	Glen Carbon	....	1	....	....	Finger injured, coupling cars	31
29	Clyde Hawley	20	Odin	....	1	....	....	Back injured, falling coal	30
Dec. 8	Jas. Mikkell	40	Staunton	....	1	....	....	Hand injured, falling coal	50
11	John Thomas	38	Glen Carbon	....	1	....	....	Hip and back injured, falling slate	44
11	L. Wright	36	Belleville	1	....	4	5	Ribs broken, falling rock	30
11	Eug. Bozanke	20	"	....	1	....	....	Ankle injured, pit car	150
13	H. Sesmeubausen	26	Marissa	....	1	2	3	Hand injured, falling slate	30
28	Fred Demrich	50	Glen Carbon	1	....	4	5	Hand injured, falling slate	42
1901									
Jan. 7	Jacob Hoenig	43	Belleville	1	....	4	5	Ribs broken, breast injured, falling slate	60
13	L. Johnson	38	Sorento	1	....	2	3	Arm broken, falling prop	30
16	Thos Holbrook	45	"	1	....	3	4	Back inj'd, fall'g coal and slate	*
27	W. Erenshausen	40	Edw'sville	1	....	3	4	Ribs broken, falling rock	50
Feb. 2	Fernay Sager	38	Trenton	1	....	3	4	Body injured, cage dropping	100
8	Wm. Seibert	50	Ruby	1	....	6	7	Rib and wrist broken, flying coal	30
8	G. Laudenenck	17	Odin	....	1	....	....	Collar bone broken, pit cars and doors	30
11	James Cooper	33	Marissa	1	....	1	2	Leg broken, falling coal	150
11	Louis Liebler	27	Trenton	....	1	....	....	Leg broken, falling coal	100
12	Gus Meder	45	Belleville	....	1	....	....	Back injured, falling clod	30
13	Tom Hopky	28	Glen Carbon	....	1	....	....	Arm broken, falling slate	*
14	T. E. Claybaugh	25	Odin	....	1	....	....	Toe injured, caught in frog	35
19	Otto Farbe	24	New Athens	1	....	1	2	Collar bone brok'n, fall'g slate	40
21	F. Reeves	22	Odin	....	1	....	....	Leg cut off, mining machine	*
22	Vict. Jauch	30	Belleville	....	1	....	....	Ankle injured, falling coal	30
26	Ed Taubey	26	Staunton	....	1	....	....	Ankle dislocated, falling coal	50
Mar. 1	A. Seltenrich	30	Belleville	1	....	4	5	Ankle fractured, falling rock	30
21	Hy Deaner	58	"	1	....	8	9	Hand injured, falling slate	30
29	Wm. Barth	39	Marissa	1	....	4	5	Leg broken, flying coal	60
Apr. 4	John Hadfield	54	Collinsville	1	....	7	8	Rib broken, boxes and pit cars	30
6	John Kenney	48	"	1	....	3	4	Body bruised, flying coal	30
6	Earnest Neal	23	Centralia	....	1	....	....	Leg injured, pit car	80
12	Lester Little	17	Glen Carbon	....	1	....	....	Ankle broken, falling coal	77
19	Fred Coleman	60	Marissa	1	....	....	1	Collar bone broken, fall'g prop	35
May 13	H. McClelland	43	Odin	1	....	3	4	Foot injured, falling coal	35
20	John Flohr	28	Glen Carbon	....	1	....	....	Back injured, falling clod	32
23	Geo. Adams	48	Collinsville	1	....	5	6	Arm broken, falling pipe	50
29	H. Frederickson	55	Glen Carbon	....	1	....	....	Back bruised, falling clod	30
30	Pat Kelly	55	"	....	1	....	....	Eyes hurt, flying coal	49
June 1	Homer Welch	33	Collinsville	....	1	....	....	Body bruised, car falling down shaft	*
5	Ross Williams	24	Belleville	1	....	2	3	Hip dislocated and collar bone broken, pit car and roof	150

Non-Fatal Casualties—Sixth District—July 1, 1901.—Concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and cause of Injury.	Time lost—days.
1901									
June 11	Fred Asper	37	Maryville	....	1	....	....	Leg broken, falling clod	90
18	Chas. Frane	40	Marissa	1	....	6	7	Ribs broken between car and roof	50
22	Jas. Bartotte	47	Glen Carbon	....	1	....	....	Leg broken, falling clod	60
27	Tom O'Brien	36	Sandoval	....	1	....	....	Thigh broken, fell under cars.	*
27	R. H. Ford	45	Odin	1	....	4	5	Leg broken, hips bruised, falling coal	42
29	Hy Hinderman	35	"	....	1	....	....	Finger cut off, maching falling	30

* Not able to work at this date.

Total number of men injured	68
Not recovered July 1, 1901	5
Number recovered	63
Time lost by men recovered	3,670 days
Average time lost by men recovered	54 "

Recapitulation of Non-Fatal Casualties—Sixth District—1901.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Belleville	10	Cager	1	Cages	2	Advance Coal Co	1
Centralia	5	Car trimmer	1	Falling roof	9	Belleville & O'Fallon Coal Co	1
Caseyville	1	Drivers	14	Falling pipe	1	Centralia Min. & M. Co.	3
Collinsville	4	Laborer	1	Falling slate	11	Con. Coal Co. (H. Bluff)	2
Edwardsville	4	Loader	1	Falling coal	14	Con. Coal Co. (Trenton)	2
Freeburg	1	Mach. runn'rs	3	Falling rock	4	Con. Coal Co. (White Oak)	1
Glen Carbon	12	Mach. helpers	3	Falling timbers	3	Con. Coal Co. (Marissa)	1
Lenz Station	1	Miners	40	Flying coal	6	C. Reinecke Coal Co	1
Marissa	6	Trapper	1	Mining machines	2	Crown C. & I. Co	1
Mascoutah	1	Timbermen	2	Pit cars	16	Donk Bros. Coal & C. Co. No. 2	2
New Athens	1	Trackman	1			Donk Bros. Coal & C. Co. No. 3	2
Odin	7					Donk Bros. (Belleville)	1
Rentchler	2					Ebel Bros. Coal Co	1
Sandoval	2					Eureka Coal Co	3
Staunton	4					Enterprise Mg. Co.	2
Sorento	2					Kolb Coal Co	1
Troy	2					Lumaghi Coal Co	1
Trenton	3					Madison Coal Co. No. 2.	3
						Madison Coal Co. No. 3.	4
						Madison Coal Co. No. 4.	9
						Mo. & Ill. Coal Co	1
						Muren Coal Co	1
						Oak Hill Coal Co	1
						Odin Coal Co	7
						Pettinger & Davis Mg. Co.	2
						Ruby Mg. Co.	1
						Sandoval Coal Co	2
						Skellet Coal Co	1
						Sorento P. & M. Co	2
						Summit Coal Co	1
						Staunton Coal Co	4
						Trenton Coal & P. Co	1
						Vinegar Hill Coal Co	1
						Walnut Hill Coal Co	1
Totals	68		68		68		68

Table showing the Nature of Injuries, Number of Persons Injured, Dependents, Time Lost, with Averages and Percentages—Sixth District, 1901.

Nature of Injuries.	Number.	Married.	Single.	Dependents.	Time Lost.		Per cent of injuries.
					Total days.	Average days.	
Arms broken	5	3	2	16	275	55	7.35
Ankles broken	2	1	1	5	122	61	2.95
Ankles injured	2	.....	2	.....	80	40	2.95
Ankles dislocated	1	.....	1	.....	50	50	1.47
Back injured	6	2	4	6	182	30	8.83
Body injured	8	3	5	8	603	75	11.86
Collar bone broken	5	3	2	3	277	56	7.35
Eyes injured	1	.....	1	.....	49	49	1.47
Feet injured	1	1	.....	4	35	35	1.47
Fingers cut off	2	.....	2	.....	60	30	2.95
Fingers injured	1	.....	1	.....	30	30	1.47
Hands injured	4	2	2	18	152	38	5.42
Hip dislocated	1	1	.....	3	150	150	1.47
Hip and back injured	1	.....	1	.....	44	.....	1.47
Legs cut off	1	.....	1	.....	.....	.....	1.47
Legs broken	15	9	6	36	1,010	67	22.40
Legs injured	1	.....	1	.....	80	80	1.47
Ribs broken	6	5	1	22	286	48	8.83
Rib and wrist broken	1	1	.....	7	30	30	1.47
Thumb injured	1	1	.....	5	90	90	1.47
Thigh broken	1	.....	1	.....	.....	.....	1.47
Toe cut off	1	.....	1	.....	30	30	1.47
Toe injured	1	.....	1	.....	35	35	1 47
Total, averages and percentages	68	32	36	132	3,670	54	100.00

Bond County—Sixth District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Sorento P. & Mfg. Co.....	Sorento.....	208,668	116,715	91,953	$1.07	$166,559
	Totals.....	.....	208,668	116,715	91,953	.....	$166,559
	Averages.....	.....	.....	.....	.....	$1 07	.....

Mines in 1900, 1.
Mines in 1901, 1.

Clinton County—Sixth District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Cons. Coal Co., Trenton.....	Trenton	66,048	44,891	21,157	$1.30	$ 68,338
2	Trenton C., L. & P. Co., No. 1	"	107,699	70,638	37,061	1.10	99,211
3	Cons. Coal Co., Breese.....	Breese	134,652	27,677	106,975	.95	111,720
4	Breese Coal Co., No. 1.....	"	206,465	78,133	128,332	1.00	164,459
5	Muren Coal & Ice Co., No. 1.	New Baden...	122,000	70,000	52,000	.85	79,550
6	Germantown Coal Co.....	Germantown..	7,800	3,150	4,650	.85	5,250
	Totals.....	.....	644,664	294,489	190,867	.....	$528,528
	Averages	.....	.....	.....	.....	$1 028	.....

Mines in 1900, 6.
Mines in 1901, 6.

Bond County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
172,170	17,698	6,600	226	96,539	112,129	$0.49	$0.42	188	20	10	24	242	1
172,170	17,698	6,600	....	96,539	112,129	.....	.....	188	20	10	24	242	
.....	....	.....	226	.....	.....	$0.49	$0.42	.....	.....	....	....	.....	

Clinton County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
53,227	.....	2,060	184	.....	66,048	.....	$0.47	84	28	5	22	139	1
101,275	.....	3,082	208	300	107,399	$0.54	.47	120	30	4	22	176	2
129,752	.....	1,406	214	134,652	.....	.49	.....	110	17	3	13	143	3
163,085	38,084	3,616	240	206,465	.....	.49	.....	125	30	3	14	172	4
110,000	.....	4,000	260	.....	122,000	.....	.42	130	5	....	10	145	5
4,200	.....	2,100	170	7,800	.....	.49	.....	10	2	....	3	15	6
561,539	38,084	16,264	....	349,217	295,447	.....	.....	579	112	15	84	790	
.....	.....	.....	212	.....	.....	$0.49	$0.449	.....	.....	....	....	.....	

Madison County—Sixth District—1901.

Number.	Name of Operator.	Postoffice Address of Mines.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Con. C. Co. Abbey No. 3	Collinsville	159,460	55,441	104,019	$0.95	$130,751
2	" Heinz Bluff	"	148,990	37,997	110,993	.95	124,519
3	" Brookside	Troy	36,601	22,410	14,191	1.20	32,877
4	" Troy	"	13,025	6,841	6,184	1.20	11,105
5	" No. 12	Worden	988	748	240	1.70	1,296
6	Madison Coal Co., No. 2	Glen Carbon	270,956	160,574	110,382	.95	196,691
7	" No. 3	Edwardsville	75,802	42,368	33,434	.95	56,956
8	" No. 4	Glen Carbon	236,376	152,408	83,968	.95	179,479
9	Donk Bros. C. & C. Co., No. 1	Collinsville	140,185	65,979	74,206	.90	94,495
10	" " No. 2	"	4,184	.....	4,184	.....	2,929
11	" " No. 3	Troy	44,726	24,618	20,108	1.20	40,281
12	Staunton Coal Co., No. 1	Staunton	327,449	196,245	131,204	.95	262,627
13	Lumaghi Coal Co., No. 1	Collinsville	60,000	30,820	29,180	1.00	48,506
14	Independence Coal Co	"	45,129	.....	45,129	.....	33,847
15	Bullocke Bros	"	4,644	3,272	1,372	1.75	7,098
16	John James	Bethalto	1,100	1,100	.....	1.25	1,375
17	Wm. Richardson	Moro	500	500	.....	1.25	625
18	Sam. McDonald	"	800	800	.....	1.25	1,000
19	Charles Kabel	"	1,920	1,920	.....	1.25	2,400
20	Malloy & Ball	North Alton	1,260	1,260	.....	1.75	2,205
21	Nathan Sydall	"	1,480	1,480	.....	1.50	2,220
22	Frank Corcamp	"	500	500	.....	1.50	750
23	Perry Meyers	Bethalto	1,000	1,000	.....	1.00	1,000
24	James Hill	Fosterburg	1,000	1,000	.....	1.25	1,250
25	Home Trade Coal Co	Edwardsville	9,793	6,966	2,827	1.00	8,173
26	Mitchell Bros	Prairietown	797	797	.....	1.38	1,100
27	Kerns-Doniwald C. Co., No. 1	Worden	6,021	.....	6,021	.....	6,021
28	John Schultz	East Alton	120	120	.....	1.50	180
29	James Tibets	North Alton	195	195	.....	1.50	292
30	Thos. Titchnell	Fosterburg	80	80	.....	1.25	100
	Totals	.....	1,595,081	817,439	777,642	.....	1,252,147
	Averages	.....	.....	.....	.....	$0.974	.....

Mines in 1900, 26.
New mines, 6.
Abandoned, 2.
Mines in 1901, 30.

Madison County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
124,102	21,722	2,726	296	.....	159,460	.....	$0.42	94	24	6	24	148	1
140,463	.....	2,209	253	.....	148,990	.....	.42	90	17	5	16	128	2
30,677	.....	1,312	173	36,601	.....	$0.49	.....	40	8	3	10	61	3
9,135	.....	1,135	98	10,024	3,001	.49	.42	42	9	4	12	67	4
.....	.....	748	120	988	.....	.49	.....	3	2	....	1	6	5
251,781	.....	3,386	248	.....	270,956	.....	.42	148	30	12	20	200	6
60,666	1,286	8,153	250	1,335	74,467	.49	.42	65	25	6	14	110	7
225,285	2,650	.....	242	.....	236,376	.....	.42	148	20	6	12	186	8
120,961	1,200	902	302	46,728	93,457	.49	.42	245	85	15	30	375	9
3,284	.....	.....	150	4,184	.....	.49	.....	15	4	....	4	23	10
39,328	.....	898	322	44,726	.....	.49	.....	79	58	1	21	159	11
315,547	3,960	1,801	252	.....	327,449	.....	.42	171	73	8	25	277	12
54,000	.....	2,000	250	60,000	.....	.49	.....	87	20	4	8	119	13
34,630	.....	.....	226	45,129	.....	.49	.....	30	4	5	5	44	14
.....	.....	4,544	240	4,644	.....	.49	.....	5	1	....	1	7	15
90	.....	1,010	160	1,100	.....	.75	.....	4	.....	....	1	5	16
.....	.....	500	100	500	.....	.79	.....	2	.....	....	1	3	17
.....	.....	800	130	800	.....	.75	.....	2	.....	....	1	3	18
.....	.....	1,920	190	1,920	.....	.75	.....	4	.....	....	1	5	19
.....	.....	1,260	210	1,260	.....	1.00	.....	3	.....	2	1	6	20
.....	.....	1,480	150	1,480	.....	1.00	.....	6	.....	....	1	7	21
.....	.....	500	200	500	.....	1.00	.....	2	.....	....	1	3	22
.....	.....	1,000	200	1,000	.....	.75	.....	2	1	....	1	4	23
.....	.....	1,000	170	1,000	.....	.75	.....	3	.....	....	1	4	24
.....	.....	8,893	300	9,793	.....	.49	.....	11	2	....	3	16	25
.....	.....	797	200	797	.....	.75	.....	2	.....	....	1	3	26
.....	.....	5,000	175	6,021	.....	*	.....	14	3	5	8	30	27
.....	.....	120	....	120	.....	1.00	.....	1	.....	....	1	2	28
.....	.....	195	100	195	.....	1.00	.....	1	.....	....	1	2	29
.....	.....	80	50	80	.....	.75	.....	1	.....	....	1	2	30
1,409,949	30,818	54,369	....	280,925	1,314,156	.....	.....	1,320	386	82	227	2,015	
.....	.....	.....	199	.....	.....	$0.503	$0.42	.....	.....	....	....	.....	

* 6,021 tons mined by hand, $2.75 per day.

Marion County—Sixth District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Cent. Mng. & Mfg. Co. No. 2	Centralia.....	218,798	144,305	74,493	$1.02	$184,077
2	Pettenger & Davis Mining Mfg. Co. Nos. 3 and 4.....	"	270,846	134,686	136,160	1.02	225,758
3	Odin Coal Co. No. 1.....	Odin.....	187,851	.....	187,851	.....	154,038
4	Sandoval Coal Co.....	Sandoval	113,107	79,975	33,132	0.93	92,006
5	Kinmundy Coal Co.....	Kinmundy ...	34,782	13,459	21,323	1.25	32,409
6	Salem Coal Co.....	Salem.....	3,942	.....	3,942	.....	5,913
	Totals.....	.....	829,326	372,425	456,901	.....	$694,204
	Averages	.....	.....	.....	.....	$1.00	.....

Mines in 1900, 6.
Mines in 1901, 6.

St. Clair County—Sixth District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Con. Coal Co., Richland....	Belleville.....	36,278	26,268	10,010	$0.85	$26,266
2	Con. Coal Co., Schureman..	"	46,679	14,461	32,218	.85	33,508
3	Con. Coal Co., Green Mt....	"	38,674	26,421	12,253	.85	28,550
4	Con. Coal Co., Gartside No.4	"	47,141	35,363	11,778	.85	35,115
5	Con. Coal Co., Rose Hill....	"	25,029	17,567	7,462	.85	18,399
6	Con. Coal Co., Pittsburg....	"	36,000	28,800	7,200	.85	26,280
7	Con. Coal Co., White Oak..	Marissa.....	65,153	7,558	57,595	.85	47,394
8	Con. Coal Co., Marissa.....	"	65,424	25,671	39,753	.90	51,412
9	Johnson Coal Co., O. K.....	"	49,472	36,116	13,356	.90	36,511
10	Eureka Coal Co	"	46,537	12,723	33,814	.85	33,626
11	Advance Coal Co.....	"	10,000	7,000	3,000	.85	6,700
12	Borders Coal Co	"	15,283	3,153	12,130	.85	11,252
13	Mo. & Ills. Coal Co., Wilderman	Belleville.....	33,383	21,723	11,660	.90	22,780
14	Mo. & Ills. Coal Co., Freeburg.....	"	40,978	12,872	28,106	.90	31,617
15	Mo. & Ills. Coal Co., Rentchler.....	"	72,328	33,527	38,801	.90	55,939
16	Glendale Coal Co. No. 1.....	"	69,400	52,650	16,750	.86	51,474
17	Glendale Coal Co. No. 2.....	"	34,550	29,300	5,250	.90	28,995
18	Oakland Coal Co.....	"	67,185	53,969	13,216	.85	53,592
19	Crown Coal & Iron Co. No.2	"	102,946	43,218	59,728	.95	83,877

Marion County, Sixth District—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
157,411	34,813	14,921	249	134,050	84,748	$0.45	$0.32	158	53	9	37	257	1
177,994	62,946	6,979	256	270,846	.....	.45	.....	199	55	9	44	307	2
177,621	.....	4,025	244	12,560	175,291	.45	.38	145	12	8	20	185	3
106,107	.....	2,500	235	113,107	.....	.45	.....	125	36	8	17	186	4
27,569	.....	2,213	246	34,782	.....	.50	.....	45	17	3	8	73	5
.....	.....	2,957	195	3,942	.....	.50	.....	6	2	....	3	11	6
646,702	97,759	33,595	....	569,287	260,039	.....	.....	678	175	37	129	1,019	
.....	.....	.....	237½	.....	.....	$0.45	$0.36	.....	.....	....	....	.....	

St. Clair County, Sixth District—Continued.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
34,270	.....	79	212	.....	36,278	.....	$0.42	28	14	1	6	49	1
29,146	14,003	18	214	.....	46,679	.....	.42	39	10	2	7	58	2
36,195	.....	.....	202	.....	38,674	.....	.42	35	3	....	7	45	3
44,476	.....	22	195	.....	47,141	.....	.42	40	8	2	10	60	4
24,139	.....	.....	199	.....	25,029	.....	.42	25	5	....	4	34	5
33,700	.....	1,300	260	36,000	.....	$0.49	.....	35	5	....	4	44	6
42,185	19,368	142	248	.....	65,153	.....	.42	39	12	....	9	60	7
63,782	.....	1,018	226	65,424	.....	.49	.....	38	8	....	8	54	8
48,302	.....	228	225	49,472	.....	.49	.....	30	6	....	4	40	9
44,263	.....	1,574	210	46,537	.....	.49	.....	37	5	1	4	47	10
8,600	.....	1,000	200	10,000	.....	.49	.....	10	2	....	3	15	11
13,953	.....	1,000	185	15,283	.....	.49	.....	10	2	2	3	17	12
31,272	.....	109	132	33,383	.....	.49	.....	31	8	....	6	45	13
38,589	.....	52	138	40,978	.....	.49	.....	45	8	....	7	60	14
68,817	.....	189	190	72,328	.....	.49	.....	50	9	....	7	66	15
57,250	.....	3,350	216	6,300	63,100	.49	.42	76	12	....	7	95	16
28,340	.....	2,400	227	34,550	.....	.49	.....	29	4	....	4	37	17
65,817	.....	.....	228	.....	67,185	.....	.42	35	5	2	6	48	18
81,424	13,750	510	325	102,946	.....	.49	.....	70	15	1	6	92	19

St. Clair County—Sixth District—1901—Continued.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons. Total.	Lump.	Other grades.	Average value of lump coal at the mine.	Aggregate value of total product.
20	Lenz Coal & Mg. Co., Harmony	"	52,379	33,787	18,592	$ .90	$41,500
21	Conrad Reincke No. 2	"	60,017	47,214	12,803	.90	47,614
22	Donk Bros. Coal & Coke Co.	"	78,132	44,598	33,534	.95	65,087
23	Muren Coal & Ice Co. No. 1.	"	120,000	50,000	70,000	.80	81,000
24	Highland Coal Co	"	37,665	32,522	5,143	.85	29,954
25	Oak Hill Coal Co	"	41,650	23,754	17,896	.85	31,270
26	Skeller Coal Co	"	46,380	35,079	11,301	.85	35,626
27	Hippard Coal Co	"	49,283	31,866	17,417	.75	30,748
28	Humboldt Coal Co	"	44,476	28,909	15,567	.85	28,464
29	Lebanon Coal & Machine Ass'n	Lebanon	69,933	42,484	27,449	.90	50,130
30	Enterprise Mg. Co	Rentchler	23,580	16,466	7,114	.85	16,434
31	Freeburg Mg. Co	Freeburg	34,829	25,455	9,374	.92	26,943
32	Dutch Hollow Coal Co	"	54,727	41,320	13,407	.90	40,540
33	O'Fallon Coal & Mg. Co., Darrow	O'Fallon.	71,128	37,374	33,754	.95	53,878
34	Joseph Taylor	"	78,690	15,924	62,766	.83	55,416
35	Joseph Taylor, Mentor mine	"	83,341	50,839	32,502	.87	60,374
36	Ruby Mg. Co.	Caseyville	74,250	55,690	18,560	.90	59,823
37	Walnut Hill Coal Co	Birkner	83,087	64,525	18,562	.85	63,487
38	Summit Coal Co	Belleville.....	47,400	34,400	13,000	.90	34,860
39	Tine & Sons Coal Co	Lenzburg.....	37,896	27,576	10,320	.93	29,824
40	Kolb Coal Co	Mascoutah ...	110,416	53,429	56,987	.87	83,534
41	Lake Coal Co	Belleville.....	25,859	.....	25,859	.....	18,101
42	Charles Hortman	"	45,000	40,000	5,000	.90	37,500
43	Beck-Walker Coal Co., Royal	"	64,779	46,300	18,479	.90	49,757
44	Belleville & O'Fallon C. Co.	"	53,434	41,283	12,151	.91	41,431
45	Taylor Bros	"	5,000	5,000	.....	1.25	6,250
46	Nicholas Weiss	"	2,200	2,200	.....	1.25	2,750
47	Frank Sergent	"	5,948	5,948	.....	1.00	5,948
48	John Harst	"	3,600	3,600	.....	1.25	4,500
49	Conrad Reeb	"	4,554	4,554	.....	1.00	4,554
50	Louis Grossman	"	880	880	.....	1.25	1,100
51	James Beatty	Mascoutah ...	2,675	2,075	600	1.50	3,231
52	Millstadt Coal Co	Millstadt.....	11,000	10,000	1,000	1.00	10,200
53	Wm. Pistor	"	3,004	3,004	.....	1.25	3,755
54	Dutch Hill Coal Co	New Athens..	11,000	2,317	8,683	.90	8,260
55	Fred Murphy	Belleville.....	20,000	17,000	3,000	.90	15,900
56	August Ebel	"	9,121	6,302	2,819	1.00	7,912
57	Reed Coal Co., "Branch"	"	28,451	27,029	1,422	.80	21,908
58	Benj. Johnson	"	880	880	.....	1.25	1,100
59	Slemen & Sons	Centerville ...	1,200	1,200	.....	1.25	1,500
60	Smith Bros	Smithton	500	500	.....	1.25	625
61	Diedrich Bros	Freeburg	1,606	1,600	6	1.25	2,001
62	Griffith & Warner	Caseyville	1,000	1,000	.....	1.25	1,250
63	J. C. Marshall	"	1,000	1,000	.....	1.25	1,250
64	Ritchie & Co	French Vill'ge	2,000	2,000	.....	1.25	2,500
65	Vinegar Hill Coal Co	New Athens..	9,177	3,494	5,683	.80	6,254
66	Valley Coal & Mg. Co.	Belleville.....	1,480	1,036	444	1.00	1,147
67	East St. Louis Mercantile & Mg. Co.	E. St. Louis ..	1,800	1,500	300	1.25	2,000
	Totals	.....	2,518,847	1,513,273	1,005,574	.....	$1,912,425
	Averages	.....	.....	.....	.....	$0.886	.....

Mines in 1900, 63.
New mines, 4.
Mines in 1901, 67.

St. Clair County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
51,779	.....	.....	250	26,189	26,190	$0.49	$0.42	50	5	....	5	60	20
56,547	.....	2,470	190	60,017	.....	.49	.....	45	12	1	7	65	21
75,322	.....	.....	202	78,132	.....	.49	.....	75	17	4	11	107	22
100,000	5,000	5,000	243	30,000	90,000	.49	.42	125	5	....	10	140	23
22,237	.....	11,552	300	37,665	.....	.49	.....	33	5	4	3	45	24
39,293	.....	911	241	41,650	.....	.49	.....	33	3	....	3	39	25
41,317	.....	1,139	200	14,780	31,600	.49	.42	40	6	4	5	55	26
43,384	.....	1,539	225	49,283	.....	.49	.....	65	12	3	11	91	27
41,994	.....	1,000	266	44,476	.....	.49	.....	30	4	....	3	37	28
58,816	.....	6,542	250	6,993	62,940	.49	.42	65	15	3	7	90	29
20,530	.....	50	240	23,580	.....	.49	.....	19	4	3	2	28	30
30,017	.....	500	245	34,829	.....	.49	.....	22	2	1	2	27	31
52,727	.....	500	250	54,727	.....	.49	.....	28	6	....	4	38	32
69,034	.....	800	205	71,128	.....	.49	.....	59	10	....	8	77	33
73,342	.....	2,983	211	78,690	.....	.49	.....	69	9	4	7	89	34
76,045	1,546	2,330	204	83,341	.....	.49	.....	72	11	5	7	95	35
72,500	.....	400	241	74,250	.....	.49	.....	67	6	3	6	82	36
68,723	.....	10,900	240	.....	83,087	.....	.42	35	5	....	7	47	37
46,200	.....	.....	240	47,400	.....	.49	.....	26	3	2	3	34	38
35,104	.....	492	189	37,896	.....	.49	.....	40	5	....	6	51	39
58,700	36,273	6,056	300	68,270	42,137	.49	.42	84	9	3	13	109	40
25,399	.....	60	200	25,859	.....	.49	.....	30	4	4	3	44	41
30,000	.....	10,000	280	45,000	.....	.49	.....	25	3	....	3	31	42
61,359	.....	.....	216	24,779	40,000	.49	.42	55	5	2	5	67	43
37,919	.....	10,318	187	19,804	33,630	.49	.42	49	8	1	7	65	44
.....	.....	5,000	250	5,000	.....	.49	.....	6	1	....	1	8	45
.....	.....	2,200	272	2,200	.....	.49	.....	4	.....	....	1	5	46
.....	.....	5,948	300	5,948	.....	.49	.....	5	1	....	2	8	47
.....	.....	3,600	300	3,600	.....	.49	.....	3	.....	....	1	4	48
.....	.....	4,554	294	4,554	.....	.49	.....	4	1	....	1	6	49
.....	.....	880	200	880	.....	.75	.....	2	.....	....	1	3	50
.....	.....	2,075	300	2,675	.....	.55	.....	4	.....	....	1	5	51
9,540	.....	1,000	300	11,000	.....	.49	.....	20	3	....	2	25	52
48	.....	2,956	238	3,004	.....	.62	.....	6	1	....	1	8	53
7,000	.....	3,150	160	11,000	.....	.49	.....	12	3	....	3	18	54
17,000	.....	3,000	300	20,000	.....	.49	.....	16	2	....	1	19	55
.....	.....	8,598	300	9,121	.....	.49	.....	8	1	....	2	11	56
24,839	.....	3,200	220	28,451	.....	.49	.....	30	4	....	3	37	57
.....	.....	880	300	880	.....	.49	.....	2	.....	....	1	3	58
.....	.....	1,200	250	1,200	.....	.49	.....	2	.....	....	1	3	59
.....	.....	500	150	500	.....	.49	.....	2	.....	....	1	3	60
.....	.....	1,606	260	1,606	.....	.55	.....	2	1	....	1	4	61
.....	.....	1,000	200	1,000	.....	.49	.....	2	.....	....	1	3	62
.....	.....	1,000	200	1,000	.....	.49	.....	2	.....	....	1	3	63
.....	.....	1,700	300	2,000	.....	.49	.....	2	.....	....	1	3	64
8,802	.....	.....	125	9,177	.....	.49	.....	16	2	....	3	21	65
1,330	.....	.....	69	1,480	.....	.49	.....	10	5	2	4	21	66
.....	.....	1,650	150	1,800	.....	.49	.....	5	1	....	2	8	67
2,150,367	89,940	144,230	....	1,720,024	798,823	.....	.....	2,108	341	60	296	2,805	
.....	.....	.....	228	.....	.....	$0.49	$0.42	.....	.....	....	....	.....	

Recapitulation by Counties—

Counties.	Number of mines.	Number of shipping mines.	No. of mines in local trade.	Total Tons Produced.	Average Value Per Ton at the Mine.						Aggregate value of total product.	Employes.		
					Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Waste		Number of miners.	All other employés.	Total.
Bond	1	1	...	208,668	$1.07	$0.89	.....	$0.64	$0.32	$0.10	$ 166,560	188	54	242
Clinton	6	6	...	644,664	1.028	0.826	$1.00	0.588	0.343	0.105	528,532	579	211	790
Madison	30	14	16	1,595,081	0.974	0.821	1.182	0.634	0.416	0.099	1,252,160	1,320	395	2,015
Marion	6	5	1	829,326	1.001	0.854	.....	0.841	0.544	0.107	694,219	678	341	1,019
St. Clair	67	51	16	2,518,847	0.886	0.766	0.859	0.532	8.281	0.103	1,912,496	2,108	697	2,809
Totals	110	77	33	5,796,586	.....	.....	.....	.....	.....	.....	$4,553,967	4,873	1,998	6,871
Averages	...	..	...	.....	0.944	0.809	0.996	0.596	0.369	0.103	.....	.....	.....	.....

Whole number of mines reported in 1900, 102.
Number of new mines opened during the year, 10.
Number of mines exhausted or abandoned during the year, 2.
Whole number of mines reported for 1901, 110.

First District—1901.

Disposition of Output—Tons.				Average No. of days in operation.	How Mined—Tons.		Prices Paid Per Ton For		Number of kegs of powder used for blasting coal.	Steam Boilers	
Loaded on cars for shipment.	Supplied to locomotives at mines.	Sold to local trade.	Consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.		No. of mines using.	Number in use.
172,170	17,698	6,600	12,200	226	96,539	112,129	$0.49	$0.42	3,502	1	6
561,539	38,084	16,264	28,777	212	349,217	295,447	0.49	0.449	11,562	6	31
1,409,949	30,818	54,369	99,945	192	*280,192	1,314,156	0.503	0.42	16,830	15	53
646,702	97,759	33,595	51,270	237	569,287	260,039	0.453	0.36	15,556	6	32
2,150,367	89,940	144,230	134,310	228	1,720,024	798,823	0.49	0.42	50,891	53	114
4,940,727	274,299	255,058	326,502	.....	3,015,992	2,780,594	.....	.....	98,341	81	236
.....	.....	.....	.....	218	.....	.....	0.485	$0.418	.....	....	....

SEVENTH INSPECTION DISTRICT—1901.

Counties: Gallatin, Hamilton, Jackson, Jefferson, Johnson, Perry, Randolph, Saline, Wabash, Washington, Williamson.

EVAN D. JOHN, *Inspector*, Carbondale.

HON. DAVID ROSS, *Secretary*,
State Bureau of Labor Statistics, Springfield, Illinois.

SIR—In compliance with section 12 of the general mining law of the State of Illinois, I have the honor to submit herewith the sixth annual report of coal mines in the seventh inspection district, for the year ended June 30, 1901. This district comprises the coal producing counties of Gallatin, Hamilton, Jackson, Jefferson, Johnson, Perry, Randolph, Saline, Wabash, Washington and Williamson.

The report presents tabulated statements showing the number of mines in operation in each county, both shipping and local, during the year; the number of new and abandoned mines; the total number of persons employed at each mine; the total tons produced and the production of the different grades, consisting of lump, mine run, egg, nut, pea or screenings and the slack or waste coal at the mines; the average value of all grades and the average value of the total product; the fatal and non-fatal casualties in and around the mines; the number of widows and the number of children left fatherless, of the men who lost their lives; the average number of days worked; the quantity of powder used; the number of machines used, and the total tons of coal produced by machines.

The following summary is taken from the statistical tables for the year:

Number of counties producing coal	11
Total number of mines	130
Number of shipping mines	57
Number of local mines	73
Number of mines abandoned during the year	17
Number of new mines opened during the year	20
Number of mines using machines	13
Number of machines in use	79
Tons of coal cut by machines	937,135
Total tonnage	3,845,253
Tons of lump coal	1,259,655
Tons of mine run	1,277,774
Tons of egg coal	276,358
Tons of nut coal	290,305
Tons of pea or screenings	569,677
Tons of slack or waste coal	171,484
Aggregate value of total product	$3,237,049
Average value of lump coal per ton at mines	1.037
Average value of mine run coal per ton at mines	0.847

Average value of egg coal per ton at mines	$1.024
Average value of nut coal per ton at mines	0.812
Average value of screenings per ton at mines	0.53
Average value of slack or waste coal per ton at mines	0.157
Number of miners	3,855
Number of other employés under ground	878
Number of boys employed under ground	149
Number of employés above ground	665
Total number of employés	5,547
Average number of days of operation for all mines	147
Number of kegs of powder used in blasting coal	98,320
Number of fatal accidents	16
Number of non fatal accidents	46
Number of widows	7
Number of children left fatherless	20
Number of tons of coal produced for each fatal accident	199,906
Number of tons of coal produced for each non-fatal accident	69,532
Number of persons employed to each fatal accident	345
Number of persons employed to each non-fatal accident	120

New Mines—The Southern Illinois Coal Mining and Washing Co., Marion, Williamson county, has recently sunk a new shaft on the Chicago & Eastern Illinois railroad, three miles north of Marion. At the depth of 120 feet a seam of coal 9 feet thick was reached, which is probably No. 7 of the geological survey.

The size of the shaft is 17 feet 9 inches by 10 feet in the clear, and is situated on a 2,000 acre tract of land, the coal running from 9 feet to 11 feet in thickness. The timbers used in the shaft are 8 x 10 inches, white oak; the tipple house is built of steel, and was erected by the Wisconsin Bridge & Iron company. The self-dumping cages and shaker screens were built by J. A. Parker, Terre Haute, Ind. Electric mining machines are used, having a 300 horse power dynamo and engine. The boilers are of the Murphy furnace type, four in number, 600 horse power, and are fed by automatic machinery. The smoke stack is built of brick and is 100 feet high. The engine and boiler room is 45x90 feet, built of hollow tile with steel trusses. The roof is of fire proof material. There is a Stewart coal washer in connection with this mine, 30 feet wide by 160 feet long, with a washing and unloading capacity of 175 bushels per hour.

The Chicago Big Muddy Coal and Coke Co., Marion, Williamson county, has recently sunk a shaft on the Chicago & Eastern Illinois railroad three and one-half miles northwest of Marion. At the depth of 81 feet a seam of coal was reached nine feet thick. The size of the shaft is 9x13 feet, and is fully equipped.

The New Virginia Coal Co., Johnson City, Lake Creek postoffice, Williamson county, has sunk a shaft on the Chicago & Eastern Illinois railroad, one and one-half miles south of that place. The depth of the shaft is 119 feet; the size of shaft 9x13 feet; the thickness of the coal is six and one-half feet.

The Jupiter Mining Co., DuQuoin, Perry county, has recently sunk a shaft on the Illinois Central railroad at DuQuoin. The mine is now fully equipped, the capacity intended is about 700 tons per day.

The White Walnut Coal Co., Pinckneyville, Perry county, has sunk a shaft on the Illinois Central railroad, one-half mile south of the depot of this road. It is the intention of the company to have its shaft equipped for a capacity of about 1,200 tons per day, which will be the largest in Perry county.

A new mine has been sunk at Tilden, Randolph county. This mine is operated by a stock company, composed of the citizens of Tilden; it is organized as the Crystal Coal Company.

Seven other new mines are being sunk, two at Coulterville, Randolph county, one at Swanwick, Perry county, one at Herrin, Williamson county, two at Ledford, Saline county, and one at Tamaroa, Perry county.

Fatal Accidents—The following is a statement in detail of the fatal accidents that have occured in the Seventh District during the year ending June 30, 1901.

July 16, 1900, William Moody, miner, aged 40 years, married, was instantly killed by a fall of roof at the face of his working room in the Pope Mining Co.'s mine, DuQuoin, Perry county. The slate that fell was about 12 feet long, eight feet wide and six inches thick. Deceased was in the act of shoveling away coal to make room to put up timber, when the slate fell. He leaves a widow and one child.

August 27, 1900, Joseph Messino, miner, aged 28 years, married, was instantly killed by a fall of slate at the face of his working room in the mine of the Willis Coal and Mining Co., Willisville, Perry county. The slate that fell on deceased was 20 feet long, ten feet wide, and from eight to ten inches thick. The room had been mined and the coal blasted down. This was a case of waiting to load the coal and then timber the place, as the deceased had remarked that he would timber the room as soon as the coal could be loaded and taken out of the way. Messino was careless in not timbering his place in time. He left a widow and one child.

August 27, 1900, Napoleon Simmons, miner, aged 28 years, married, was severely burned by the explosion of powder in the Superior Coal Co.'s mine, DuQuoin, Perry county. The deceased was handling the powder when it was ignited by the light of his lamp. He walked to his home, and no one thought at the time that he was seriously burned; it was judged that he must have been burned internally. He died 48 hours after the accident, and leaves a widow and two children.

September 16, 1900, James Sammons, laborer, aged 19 years, single, was severely hurt by falling down the escapement shaft, 150 feet, of the Chicago-Carterville Coal Co., at Herrin, Williamson county. He died in 30 minutes after being brought to the surface. The deceased was walking across over the shaft when the plank he was walking on gave way, causing him to fall, with the result as stated.

September 17, 1900, Elmer Hill, miner, aged 17 years, single, was instantly killed by falling roof in the Greenwood & Davis Coal Co.'s mine, DuQuoin, Perry county. The deceased was working with his father; he had timbered the room that morning and was loading the coal; he asked his father if he thought everything was all right, and before the father could answer a piece of clod weighing about 200 pounds broke off over one of the props, crushing his head against the kip piece on the bottom, with the result as stated.

December 13, 1900, Patrick Martin, miner, aged 39 years, single, was severely crushed about the body by a fall of top coal at the Harrison shaft of the Big Muddy Coal & Iron Co., Murphysboro, Jackson county. Deceased

was working in a pillar, undermining the bottom coal when a piece of top coal weighing about one ton broke off over the slate falling on him. Martin was an experienced miner and had worked in this mine over 16 years. He was removed to his home and died an hour and a-half after the accident.

January 9, 1901, Noah Morgan, driver, aged 20 years, single, was killed instantly by being caught between a pit car and the side of the entry in the Big Muddy Coal & Iron Co.'s mine No. 7, Herrin, Williamson county. The deceased was making his last trip before dinner, and was riding on the front end of the empty car, driving at full speed, the car left the track, when he was caught, with the result as stated.

January 15, 1901, William Hampton, machine miner, aged 37 years, married, was killed instantly by a fall of roof in the George W. Brown Coal Co.'s mine, Pinckneyville, Perry county. Deceased was running an electric mining machine; the room had been timbered; he took an iron bar used in moving the machine and knocked out one of the props, in order to make room for one of the machines along the face; while in the act of moving the machine a mass of slate and clod fell on him, causing his death. He leaves a widow and four children.

February 1, 1901, William Penny, miner, aged 25 years, single, was severely crushed by a fall of slate in the Eden mine of the Western Anthracite Coal & Coke Co., Sparta, Randolph county. The deceased knew of the dangerous condition of the slate he was working under, as he had been warned by men working in the next room; he was in the act of loading coal when the slate fell on him, and died after being taken home, three hours after the accident.

February 28, 1901, Thomas L. Grezzell, carpenters' helper, aged 21 years, single, was instantly killed by being struck on the head by the descending cage, at the Willisville Coal & Mining Co.'s mine, Willisville, Perry county. Deceased was told to call to the bottom cage to send up a shovel; he went direct to the shaft, leaned over and was trying to talk to men at the cage below, when the descending cage struck him on the head; he fell backward on to the cage. He died two hours afterwards.

March 29, 1901, Levi Marlow, machine runner, aged 29 years, married, was severely crushed by falling slate in the face of Room No. 12 of the fourth north entry, in the Harrison shaft of the Big Muddy Coal & Iron Co., Murphysboro, Jackson county. He died from injuries sustained, five hours after the accident. The slate that fell on him was ten feet long, four feet wide and from four to six inches thick. He leaves a widow and two children.

April 6, 1901, Fritz Stayndner, miner, aged 44 years, married, was instantly killed by a fall of top coal in the Gartside Coal Co.'s mine No. 1, Murphysboro, Jackson county. The deceased was mining off of a pillar in an old room, and was in the act of setting his drill under the top coal, when the coal in which he was trying to fasten the end of the drill fell, with the result as stated. The coal that fell on deceased weighed about one ton. He leaves a widow and four children.

April 13, 1901, Fred Laws, driver, aged 17 years, single, was killed instantly by being crushed between the top of a pit car and the roof, at the Western Anthracite Coal & Coke Co.'s Eden mine, Sparta, Randolph county. Deceased was

driving a mule, and was coming out with his last trip for the day; when near the double parting in the north entry he got off at the side on which he was used to riding, into a cross cut; when trying to get back on to the front end of the car his head struck the roof, which was low at this place, causing him to be partly dragged on the top of the car. He was dead when found.

June 17, 1901, Patrick Murphy, miner, aged 21 years, was severely crushed about the head and body by a fall of slate in his working room in the Davenport Coal Co.'s mine, Ledford, Saline county. The deceased and his father were working together; a fall of slate had occurred about 50 feet back of their working face the night before and had covered up the drilling tools. Murphy, Jr., was working trying to locate his tools, when a piece of slate fell on him, causing his death. The slate that fell was seven feet long, five feet wide and from two to four inches thick. He died four hours after the accident.

June 24, 1901, Logan Reeder, pumpman, aged 38 years, married, was instantly killed by a fall of coal in Room No. 39, third north entry of shaft No. 6 of the Big Muddy Coal & Iron Co., Murphysboro, Jackson county. Deceased went into the room to pump water, and it was necessary for him to get along the face of the room and clean off some coal to allow the water to get to the suction pump. He was told by the men working in the room not to stand too close to the face, as the coal had been blasted the day before and was ready to fall. Reeder for some cause or other failed to heed the advice of the men, and was standing close to the working face when a mass of coal fell on him that caused his death. He leaves a widow and two children.

June 30, 1901, Joseph Herwin, sinker, aged 30 years, widower, was killed instantly by falling timber in the sinking shaft of the Saline County Coal Co., Harrisburg, Saline county. Deceased was working in a stooping position in the middle of the sinking shaft. The engineer on the surface signaled to hoist the bucket. and started his engines. When the bucket was about 35 feet from the bottom it struck a bunting, knocking it out so that it fell back into the shaft; before Herwin could get out of the way he was struck on the head by the falling timber. The size of the timber was 6x6 inches, and seven feet long. This bunting had been knocked loose several times before; it was, therefore, deemed carelessness on the part of the persons in charge of the sinking that it was not securely fastened. He leaves four orphan children.

The tables of fatal and non-fatal accidents, and the county tables follow:

Respectfully submitted,

EVAN D. JOHN,

State Inspector of Mines, Seventh District.

Carbondale.

Fatal Casualties—Seventh District—July 1, 1901.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widow.	Children.	Single.	Depend'nts	Cause of Accident.
1900										
July 16	William Moody	40	Miner	DuQuoin	1	1	1	..	2	Falling slate
Aug. 27	Joseph Messino	28	"	Willisville	1	1	1	..	2	Falling slate
27	Napoleon Simmons	28	"	DuQuoin	1	1	2	..	3	Explosion of powder.
Sept. 6	James Sammons	19	Laborer	Herrin	..	..	..	1	..	Falling down shaft.
17	Elmer Hill	17	Miner	DuQuoin	..	..	..	1	..	Falling slate
Dec. 13	Patrick Martin	39	"	M'physboro.	..	..	..	1	..	Falling top coal [entry.
1901										
Jan. 9	Noah Morgan	20	Driver	Herrin	..	..	..	1	..	Pit car and side of
15	William Hampton	37	Mch. runner	Pinckneyv	1	1	4	..	5	Falling slate
Feb. 1	William Penny	25	Miner	Sparta	..	..	..	1	..	Falling slate
28	Thos. L. Grezzell	21	Carp. helper	Willisville	..	..	..	1	..	Descending cage
Mar. 29	Levi Marlow	35	Mch. runner	M'physboro.	1	1	2	..	3	Falling slate
Apr. 6	Fritz Stayndner	44	Miner	"	1	1	4	..	5	Falling coal
13	Fred Laws	17	Driver	Sparta	..	..	..	1	..	Pit car and roof
June 17	Pat Murphy	21	Miner	Ledford	..	..	..	1	..	Falling slate
24	Logan Reeder	38	Pump man	M'physboro.	1	1	2	..	3	Falling coal
29	Joseph Herwin	30	Sinker	Harrisburg.	1	..	4	..	4	Falling timber
	Total	..			8	7	20	8	27	

Recapitulation of Fatal Accidents—Seventh District—1901.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
DuQuoin	3	Carp. helper	1	Descending cage	1	Big Muddy Coal & I. Co. No. 6	1
Herrin	2	Drivers	2	Explos'n of powder	1	Big Muddy Coal & I. Co. (Herrin)	1
Harrisburg	1	Laborer	1	Falling down shaft.	1	Big Muddy Coal & I. Co. (Harrison)	2
Ledford	1	Mch. runners.	2	Falling coal	3	Chic. & Carterville Coal Co	1
Murphysboro	4	Miners	8	Falling slate	7	Davenport Coal Co	1
Pin'kneyville	1	Pump man	1	Falling timber	1	Gartside C. Co. No. 1.	1
Sparta	2	Sinker	1	Pit cars	1	Greenw'd Davis Coal Co	1
Willisville	2			Pit cars and roof	1	G.W. Brown Coal Co.	1
						Jupiter Coal Co	1
						Pope Mining Co	1
						Western A.C. & Coke Co	2
						Willis Coal Co	2
						Sink'g shaft (Saline)	1
Totals	16		16		16		16

Non-Fatal Casualties—Seventh District—July 1, 1901.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and cause of injury.	Time lost—Days.
1900									
July 2	John Halpen	55	M'physboro.	....	1	....	....	Hands injured, roof and coal	31
16	Levi Phillips	32	Herrin	1	....	3	4	Head and shoulders injured, falling coal	45
16	J. F. Elliott	24	"	....	1	....	....	Hips dislocated between cars.	56
28	David Hayler	40	M'physboro.	1	....	4	5	Hand, back and hips cut, falling slate	34
28	Antones Russ	50	"	....	1	....	....	Hand cut, falling slate	70
31	Frank Johnson	21	Elkville	....	1	....	....	Foot injured, car wheel	30
Aug. 31	Silas Roberts	53	M'physboro.	1	....	5	6	Foot injured, falling coal	69
31	James Cook	27	Dewmain	1	....	....	1	Thumb inj'd, roof and pit car.	30
Sept. 4	Leigh Morgan	23	Herrin	1	....	1	2	Thumb injured, cross bars and pit car	30
16	D. Williams	23	Dewmain	....	1	....	....	Arm and back injured, coal elevator	60
18	Pat Higgins	48	Herrin	1	....	9	10	Body bruised, flying coal	30
19	Jos. Larto	25	DuQuoin	....	1	....	....	Leg and body bruised, falling coal.	35
24	Roy Petman	24	Ledford	1	....	....	1	Ankle injured, falling slate	32
Oct. 11	Garfield Hooper	19	Dewmain	....	1	....	....	Foot broken, pit car	40
17	Frank Snonden	20	M'physboro.	....	1	....	....	Hand inj'd, pit car and props.	40
Nov. 2	Thomas Taylor	35	"	1	....	3	4	Back injured, pit car.	48
3	Joe Burgesgot	35	DuQuoin	....	1	....	....	Leg injured, falling slate	85
19	Harry Bastien	25	M'physboro	....	1	....	....	Body injured, car and roof	31
30	Perry Center	53	Herrin	1	....	....	1	Leg broken, falling slate	54
30	Lee Helm	21	"	....	1	....	....	Collar bone broken, car and props	36
Dec. 1	B. B. Goddard	52	Tilden	1	....	4	5	Leg broken, fall'g down shaft.	90
1	C. Thesom	28	"	1	....	2	3	Leg broken, fall'g down shaft.	120
3	Geo' Jeremaih	28	DxQuoin	....	1	....	....	Hand mashed, c'pling pit cars.	30
10	David Jenkins	26	Ledford	....	1	....	....	Ankle broken, falling slate	120
13	E. Martin	15	Elkville	....	1	....	....	Leg broken, falling coal	35
1901									
Jan. 7	S. Ridner	61	DuBois	1	....	....	1	Hip and side bruised, falling rock	42
19	John Brown	24	Dewmain	....	1	....	....	Leg broken, elevator wheel	130
Feb. 11	Frank Kline	59	DuQuoin	1	....	4	1	Body and hips bruised betw'n pit cars and side	*
11	Monroe Sisney	19	Dewmain	....	1	....	....	Foot mashed between cars	60
15	W. McMurray	30	Herrin	1	....	1	2	Leg broken between pit cars.	†
Mar. 13	J. J. Claybrook	40	DuQuoin	1	....	2	3	Body injured, falling cage	40
13	Mailey Marrili	25	Hal'dayboro	....	1	....	....	Leg broken, falling slate	40
13	E. Houston	40	"	1	....	3	4	Leg injured, falling slate	30
27	W. Kocheisberger	16	DuBois	....	1	....	....	Hip and back inj'd, fall'g rock	45
29	Michael Bruztti	35	M'physboro.	1	....	5	6	Leg broken, falling slate	100
Apr. 3	John Moore	17	Dewmain	....	1	....	....	Ribs broken between pit cars.	45
4	Fred Meyers	23	Johns'n City	....	1	....	....	Legs and back injured, falling slate	60
19	Frank Kawoski	..	"	....	1	....	....	Back injured, falling slate	60
May 2	John Cristie	23	Herrin	1	....	1	2	Hands and face burned, premature blast	35
June 5	William Jarrell	22	Ledford	....	1	....	....	Ribs broken, falling slate	†
17	Marshall Lamb	30	"	1	....	1	2	Ankle broken, falling slate	†
17	Monroe Sisney	19	Dewmain	....	1	....	....	Arm broken, car and roof	†
17	Sam Watts	17	"	....	1	....	....	Ankle injured, pit car	†
18	Louie Zinc	31	M'physboro.	1	....	....	1	Arm injur'd, machine and roof	†
20	Lon Arnold	21	Mt. Vernon.	....	1	....	....	Shoulder dislocated, pit car	†
25	Mack Smith	23	Herrin	....	1	....	....	Hand bruised, pit car wheel	†

* This man died from injuries since closing this report.

† Not recovered July 1, 1901.

Total number of men injured	46
Not recovered July 1, 1901	9
Number recovered July 1, 1901	37
Time lost by men recovered	1,998 days
Average days lost by men recovered	43.37

Recapitulation of Non-Fatal Casualties—Seventh District—1901.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Dewmain	8	Drivers	11	Cages	1	Big Muddy Coal & I. Co. No 6	3
DuQuoin	5	Engineer	1	Coal elevator	2	Big Muddy Coal & I. Co. (Herrin)	2
DuBois	2	Laborers	6	Falling coal	5	Big Muddy Coal & I. Co. (Harrison)	6
Elkville	2	Loader	1	Falling slate	13	Chicago & Cart'rville Coal Co	3
Hallidayboro	2	Mch. runners	2	Falling rock	2	Crystal Coal Co	2
Herrin	9	Mine man'ger	1	Falling down shaft	2	Davenport Coal Co	4
Johnson City	2	Miners	23	Flying coal	1	Horn's Coalery Co	4
Ledford	4	Timberman	1	Mining machines	1	Kuhn's Mines	2
Murphysboro	9			Premature blast	1	Muddy Valley Mining & Mfg. Co	5
Mt. Vernon	1			Pit cars	18	Mt. Vernon Coal Co	1
Tilden	2					St. Louis Big Muddy Coal Co	8
						Sunnyside Coal Co	4
						Williamson Co. Coal Co	2
Totals	46		46		46		46

Table Showing the Nature of the Injuries, Number of Persons Injured, Dependents, Time Lost, with Averages and Percentages—Seventh District.

Nature of Injuries.	Number.	Married.	Single.	Dependents.	Time Lost.		Per cent of Injuries.
					Total days.	Average days.	
Arms injured	1		1		30	30	2.17
Arm and back injured	2		2		60	30	4.35
Ankles broken	2	1	1	2	120	60	4.35
Ankles injured	2	1	1	1	32	16	4.35
Back injured	2	1	1	4	108	54	4.35
Body injured	5	3	2	14	101	20	10.9
Collar bone broken	1		1		36	36	2.17
Feet injured	3	1	2	6	159	53	6 52
Foot broken	1		1		40	40	2.17
Hands and face burned	1	1		2	35	35	2.17
Hands injured	6	1	5	5	205	34	13.03
Head and shoulder injured	1	1		4	45	45	2.17
Hips dislocated	1		1		56	56	2.17
Hips injured	1	1		1	42	42	2.17
Hip and back injured	1		1		45	45	2.17
Legs broken	8	5	3	18	569	71	17.4
Leg and back injured	1		1		60	60	2.17
Legs injured	3	2	1	4	150	50	6.52
Ribs broken	2		2		45	23	4 35
Thumbs injured	2	2		3	60	30	4.35
Totals, averages and percentages	46	20	26	64	1,998	43.37	100.00

Gallatin County—Seventh District—1901.

Number.	Name of Operator.	Postoffice Address of Mines.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Hugh Murray, 1	Equality	9,500	4,980	4,520	$1.10	$7,982
2	William H. Stadler	"	4,000	.....	4,000	.....	4,000
3	William H. McLain	"	1,304	1,200	104	1.25	1,554
4	John H. Underwood	"	850	.....	850	.....	850
5	F. W. Weedman	"	290	290	.....	1.00	290
6	Rutley & Godsley	"	800	500	300	1.25	1,000
7	Robert Reid Coal Co	Saline Mines	320	.....	320	.....	320
8	" "	"	460	.....	460	.....	460
9	" "	"	620	.....	620	.....	620
10	Mike Carney	Shawneetown	2,650	870	1,780	1.25	2,273
11	Leon Vogt	"	620	500	120	1.25	655
	Totals	.....	21,414	8,340	13,074	.....	$20,004
	Averages	.....	.....	.....	.....	$1.15	.....

Mines in 1900, 12.
Abandoned mines, 1.
Mines in 1901, 11.

Hamilton County—Seventh District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	J. C. Harper	McLeansboro	200	200	.....	$1.25	$250
2	I. R. Yates	Dahlgren	640	.....	640	.....	800
	Totals	.....	840	200	640	.....	$1,050
	Averages	.....	.....	.....	.....	$1.25	.....

Mines in 1900, 2.
Mines in 1901, 2.

Gallatin County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
7,000	1,500	500	104	9,500	.....	$0.45	.....	35	9	4	8	56	1
.....	.....	4,000	150	4,000	.....	50	.....	4	1	....	1	6	2
.....	.....	1,256	100	1,304	.....	60	.....	3	.....	....	1	4	3
.....	.....	850	100	850	.....	50	.....	2	.....	....	1	3	4
.....	.....	290	125	290	.....	50	.....	1	.....	....	....	1	5
.....	.....	800	44	800	.....	50	.....	4	.....	....	1	5	6
.....	.....	320	98	320	.....	50	.....	1	.....	....	....	1	7
.....	.....	460	108	460	.....	50	.....	2	.....	....	....	2	8
.....	.....	620	122	620	.....	50	.....	2	.....	....	....	2	9
.....	.....	2,650	214	2,650	.....	50	.....	4	.....	....	1	5	10
.....	.....	620	160	620	.....	50	.....	2	.....	....	....	2	11
7,000	1,500	12,366	....	21,414	.....	.....	.....	60	10	4	13	87	
.....	.....	.....	120	.....	.....	$0.49¼	.....	.....	.....	....	....	.....	

Hamilton County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	.....	200	40	200	.....	$0.45	.....	3	.....	....	....	3	1
.....	.....	640	100	640	.....	45	.....	6	.....	....	....	6	2
.....	.....	840	....	840	.....	.....	.....	9	.....	....	....	9	
.....	.....	.....	70	.....	.....	$0.45	.....	.....	.....	....	....	.....	

Jackson County—Seventh District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other Grades.		
1	Gartside Coal Co., No. 1	Murphysboro.	26,951	.....	26,951	.....	$31,154
2	" " No. 3	"	33,299	22,732	10,567	$1.25	34,137
3	" " No. 4	"	73,078	48,190	24,888	1.25	71,293
4	B. Muddy C. & I. Co., No. 6	"	275,442	122,413	153,029	1.20	252,873
5	" " Harrison	"	197,880	105,194	92,686	1.20	179,681
6	E. E. Poole	"	2,360	1,574	786	2.25	4,333
7	Schmidgall Coal Co., No. 1	"	300	200	100	2.25	510
8	William C. Beard	Carbondale	250	250	.....	1.00	250
9	John C. Ritch	" "	600	400	200	1.00	500
10	John A. Presson	" "	400	300	100	1.00	350
11	William Meyer	" "	400	300	100	1.00	350
12	M. M. Thompson Coal Co	" "	1,000	700	300	1.00	850
13	Browning	" "	650	500	150	1.00	575
14	Wining Coal & Mining Co	Sato	3,400	3,400	.....	1.50	5,100
15	The Willis C. & M. Co., No. 2	"	18,000	6,131	11,869	1.40	19,240
16	S. Argus	"	240	240	.....	1.00	240
17	S. S. Jones	"	320	320	.....	1.00	320
18	Marion Owens	Vergennes	280	280	.....	1.25	350
19	John Campbell	"	320	320	.....	1.25	400
20	H. Moss	"	400	400	.....	1.25	500
21	John Juber	Oraville	400	400	.....	1.25	500
22	Big Muddy C. & Wash'g Co.	DeSoto	53,722	.....	53,722	.....	45,664
23	Muddy Val. M. & Mfg. Co.	Hallidayboro.	220,480	72,418	148,062	1.25	213,668
24	H. R. King	Campbell Hill	300	300	.....	1.50	450
25	D. Dassin	"	368	368	.....	1.50	552
26	Willard Costion	"	405	405	.....	1.50	608
	Totals	.....	911,245	387,735	523,510	.....	$864,432
	Averages	.....	.....	.....	.....	$1.29 2/3	.....

Mines in 1900, 28.
New mines, 1.
Abandoned mines, 3.
Mines in 1901, 26.

Jackson County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	24,876	825	236	16,281	10,670	$0.45	$0.38	20	10	1	5	36	1
31,299	.....	.....	175	10,836	22,463	.45	.38	35	15	3	11	64	2
67,078	.....	500	230	13,030	60,048	.45	.38	50	21	4	15	90	3
265,897	.....	.....	263	10,983	264,459	.45	.38	160	37	7	21	225	4
191,600	.....	.....	230	18,230	179,650	.45	.38	125	34	8	20	187	5
153	.....	2,127	159	2,360	.....	.35	.....	6	1	2	2	11	6
.....	.....	300	60	300	.....	.45	.....	3	.....	....	2	5	7
.....	.....	250	80	250	.....	.45	.....	1	.....	....	1	2	8
.....	.....	600	120	600	.....	.45	.....	1	.....	....	1	2	9
.....	.....	400	110	400	.....	.45	.....	1	.....	....	1	2	10
.....	.....	400	110	400	.....	.45	.....	2	.....	....	....	2	11
.....	.....	1,000	120	1,000	.....	.45	.....	3	.....	....	....	3	12
.....	.....	650	125	650	.....	.45	.....	2	.....	....	1	3	13
.....	.....	3,400	130	3,400	.....	.45	.....	6	.....	....	1	7	14
17,600	.....	300	200	18,000	.....	.45	.....	24	4	1	4	33	15
.....	.....	240	100	240	.....	.45	.....	1	.....	....	....	1	16
.....	.....	320	106	320	.....	.45	.....	1	.....	....	1	2	17
.....	.....	280	100	280	.....	.45	.....	2	.....	....	....	2	18
.....	.....	320	104	320	.....	.45	.....	2	.....	....	....	2	19
.....	.....	400	110	400	.....	.45	.....	2	.....	....	....	2	20
.....	.....	400	110	400	.....	.45	.....	2	.....	....	....	2	21
52,122	.....	.....	108	53,722	.....	.45	.....	80	16	2	12	110	22
159,055	48,110	1,959	241	220,480	.....	.45	.....	170	30	8	22	230	23
.....	.....	300	96	300	.....	.45	.....	2	.....	....	....	2	24
.....	.....	368	100	368	.....	.45	.....	2	.....	....	....	2	25
.....	.....	405	120	405	.....	.45	.....	2	.....	....	....	2	26
784,804	72,986	15,744	....	373,955	537,290	.....	.....	705	168	36	120	1,029	
.....	.....	.....	140	.....	.....	$0.45	$0.38	.....	.....	....	....	.....	

Jefferson County—Seventh District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons. Total.	Lump.	Other grades.	Average value of lump coal at the mine.	Aggregate value of total product.
1	Mt. Vernon Coal Co.	Mt. Vernon	35,314	15,000	20,314	$1.50	$38,394
2	G. W. Shelton	Opdyke	113	113	.....	.....	170
	Totals	.....	35,427	15,113	20,314	.....	$38,564
	Averages	.....	.....	.....	.....	$1.50	.....

Mines in 1900, 2.
Mines in 1901, 2.

Johnson County—Seventh District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons. Total.	Lump.	Other grades.	Average value of lump coal at the mine.	Aggregate value of total product.
1	New Burnsides Coal Co.	N. Burnside	2,500	1,500	1,000	$1.25	$2,825
2	D. J. Wallace	"	1,000	300	700	1.25	967
3	McMichael & King	"	400	350	50	1.25	475
4	Walter Smith	"	309	300	9	1.25	384
	Totals	.....	4,209	2,450	1,759	.....	$4,651
	Averages	.....	.....	.....	.....	$1.25	.....

Mines in 1900, 5.
Abandoned mines, 1.
Mines in 1901, 4.

Jefferson County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
7,071	19,781	7,262	233	4,000	31,314	$0.50	$0.43	41	15	2	15	73	1
.....	.....	113	40	113	.....	.50	.....	4	.....	....	....	4	2
7,071	19,781	7,375	....	4,114	31,314	.....	.....	45	15	2	15	77	
.....	.....	.....	137	.....	.....	$0.50	$0.43	.....	.....	....	....	.....	

Johnson County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
2,500	.....	.....	50	2,500	.....	$0.45	.....	10	1	....	3	14	1
.....	.....	970	150	1,000	.....	.65	.....	3	1	....	....	4	2
.....	.....	400	100	400	.....	.50	.....	2	1	....	....	3	3
.....	.....	309	75	309	.....	.50	.....	2	.....	....	....	2	4
2,500	.....	1,679	....	4,209	.....	.....	.....	17	3	....	3	23	
.....	.....	.....	94	.....	.....	$0.50½	.....	.....	.....	....	....	.....	

Perry County—Seventh District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Greenwood Davis Coal Co..	DuQuoin.....	72,185	36,092	36,093	$1.10	$ 60,056
2	Horns Colliery Co	"	95,059	34,059	61,000	.95	66,206
3	Perry County Coal Co	"	31,270	23,453	7,817	.95	26,449
4	Pope Mining Co.....	"	42,000	.....	42,000	.....	35,700
5	Superior Coal Co.....	"	70,977	40,508	30,469	.95	54,255
6	Vulcan Coal Co.....	"	45,000	.....	45,000	.....	36,900
7	Jupiter Coal Co	"	14,508	3,192	11,316	1.05	12,100
8	New Moon Coal Co.....	"	6,161	3,460	2,701	1.65	8,740
9	William Williams.....	St. John.....	2,000	.....	2,000	.....	2,000
10	Bailey Bros. Coal Co.....	Sunfield	34,000	18,755	15,245	.95	28,946
11	Tamoroa Colliery	Tamaroa.....	100	.....	100	.....	85
12	Geo. W. Brown Coal Co	Pinckneyville	56,000	20,000	36,000	.95	41,735
13	White Walnut Coal Co.....	"	3,119	.....	3,119	.....	3,119
14	Turner & Faust Coal Co....	"	9,124	3,744	5,380	1.10	8,652
15	Roe Coal Co	"	1,914	1,330	584	1.50	2,579
16	Maasbury & Co.....	"	1,600	1,600	.....	1.50	2,400
17	Barnell Coal Co	Conant.....	6,500	.....	6,500	.....	5,525
18	Loper & Co., Brainard.....	Cutler.....	41,249	37,835	3,414	.90	36,019
19	Thomas Carter.....	Denmark	116	116	.....	1.25	145
20	John E. Henson.....	"	120	120	.....	1.25	150
21	Willis Coal & Mining Co...	Willisville....	131,276	88,204	43,072	.90	108,305
	Totals.....	.....	664,278	312,468	351,810	.....	$539,866
	Averages	.....	.....	.....	.....	$0.95[23]	.....

Mines in 1900, 22.
New mines, 2.
Abandoned mines, 3.
Mines in 1901, 21.

Perry County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
69,185	.....	900	165	72,185	.....	$0.45	.....	90	20	2	13	125	1
93,000	.....	1,000	164	95,059	.....	.45	.....	125	50	....	15	190	2
29,533	.....	1,478	205	31,270	.....	.45	.....	50	10	....	10	70	3
40,700	.....	50	196	42,000	.....	.45	.....	50	14	....	6	70	4
69,170	.....	600	218	70,977	.....	.45	.....	85	14	5	8	112	5
43,000	.....	200	180	45,000	.....	.45	.....	75	13	2	10	100	6
12,508	.....	200	89	14,508	.....	.45	.....	50	14	1	15	80	7
.....	.....	5,761	230	6,161	.....	.45	.....	8	1	....	1	11	8
.....	.....	1,900	250	2,000	.....	.45	.....	2	1	....	1	4	9
30,923	.....	1,350	226	34,000	.....	.45	.....	40	7	....	8	55	10
80	.....	.....	8	100	.....	.45	.....	5	1	....	2	8	11
53,350	.....	750	175	3,500	52,500	.49	$0.42	58	29	3	11	101	12
.....	2,997	107	61	3,119	.....	.49	.....	21	3	....	5	29	13
6,504	.....	2,420	125	9,124	.....	.49	.....	10	3	....	3	16	14
.....	.....	1,914	108	1,914	.....	.49	.....	4	.....	....	1	5	15
.....	.....	1,600	106	1,600	.....	.49	.....	3	.....	....	1	4	16
6,000	.....	500	125	6,500	.....	.49	.....	8	2	....	3	13	17
35,349	4,200	1,200	250	41,249	.....	.49	.....	55	6	....	4	65	18
.....	.....	116	40	116	.....	.49	.....	2	.....	....	1	3	19
.....	.....	120	44	120	.....	.49	.....	2	.....	....	1	3	20
94,327	26,456	240	217	84,184	47,092	.49	.42	175	32	3	30	240	21
583,629	33,653	22,415	....	564,686	99,592	.....	.....	918	220	16	150	1,304	
.....	.....	.....	175	.....	.....	$0.46¼	$0.42	.....	.....	....	....	.....	

Randolph County—Seventh District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of product
			Total.	Lump.	Other grades.		
1	West. A. C. & C. Co., Eden.	Sparta	190,047	158,000	32,047	.68	$110,645
2	Davison & Fulton, 1	"	13,408	.....	13,408	.....	9,386
3	Davison & Fulton, 2	"	5,320	.....	5,320	.....	3,724
4	Illinois Fuel Co., 2	"	8,642	593	8,049	1.00	6,457
5	Illinois Fuel Co., 3	"	24,826	7,435	17,391	1.05	20,627
6	J. C. Boyle & Son, Boyle	"	1,915	1,762	153	1.25	2,217
7	Coulterville Mining Co.	Coulterville	23,406	10,940	12,466	1.00	17,935
8	Donk Bros. Coal & Coke Co.	Tilden	49,581	19,529	30,052	.90	36,449
9	Crystal Coal Co	"	5,541	.....	5,541	.....	4,156
10	William Goalby & Sons, 2	Percy	27,265	1,200	26,065	1.10	23,917
11	William Borders	"	17,522	.....	17,522	.....	15,332
12	Rosborough Coal Co	"	42,324	2,468	39,856	1.00	35,992
13	John & George Meyers	"	680	575	105	1.50	979
13	George Stanway	Blair	3,072	3,072	.....	1.00	3,072
	Totals		413,549	205,574	207,975	.....	$290,905
	Averages		.....	.....	.....	$0.71½	.....

Mines in 1900, 12.
New mines, 2.
Abandoned, 0.
Mines in 1901, 14.

Randolph County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
187,000	.....	1,247	260	190,047	.....	$0.49	.....	145	27	8	11	191	1
11,000	.....	2,000	136	13,408	.....	.49	.....	23	6	....	3	32	2
5,000	.....	.....	150	5,320	.....	.49	.....	13	3	2	2	19	3
7,781	.....	40	133	8,642	.....	.49	.....	23	4	....	5	32	4
17,885	6,081	161	208	24,826	.....	.49	.....	30	4	....	4	38	5
.....	.....	1,762	160	1,915	.....	.49	.....	2	.....	.....	1	3	6
20,135	.....	2,233	174	23,406	.....	.49	.....	30	10	3	6	49	7
47,411	.....	1,138	166	49,581	.....	.49	.....	53	12	5	8	78	8
4,869	.....	672	180	5,541	.....	.49	.....	8	1	....	3	12	9
26,052	.....	1,213	170	27,265	.....	.49	.....	31	7	....	3	41	10
17,322	.....	.....	240	17,522	.....	.49	.....	32	5	3	5	45	11
40,887	.....	963	220	42,324	.....	.49	.....	65	10	1	4	80	12
.....	.....	680	74	680	.....	.49	.....	2	.....	.....	.....	2	13
.....	.....	3,072	258	3,072	.....	.49	.....	4	1	....	1	6	14
385,341	6,081	15,181	....	413,549	.....	.....	.....	461	90	22	56	629	
.....	.....	.....	180	.....	.....	$0.49	.....	.....	.....	....	....	.....	

Saline County—Seventh District—1901.

Number.	Name of Operator.	Postoffice Address of Mines.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Harrisburg M. & Coal Co., 1	Harrisburg...	25,590	10,807	14,783	$1.30	$23,340
2	Davenport Coal Co., 1.....	Ledford	118,554	8,146	110,308	1.00	98,786
3	Cook & Blockley	Eldorado.....	1,252	1,252	.....	1.00	1,222
4	C. M. Leeper & Co., Diamond	"	800	640	160	1.00	704
5	William Butler.....	Stonefort.....	580	260	320	1.00	532
6	H. P. Sitley.....	"	30	30	.....	1.00	30
7	O. C. Cogdill.....	"	128	128	.....	1.00	128
8	John Chaney	"	90	90	.....	1.00	90
9	R. M. Berry.....	Cottage Grove	311	311	.....	1.00	311
10	William L. Evans.....	"	415	415	.....	1.00	415
11	John Yates	"	48	48	.....	1.00	48
12	James A. Clark.....	"	100	100	.....	1.00	100
13	Simon More	"	50	50	.....	1.00	50
14	John Ward	Mitchellville .	453	453	.....	1.25	566
15	D. P. Bybee.....	"	400	400	.....	1.25	500
	Totals.....	.....	148,701	23,130	125,571	.....	$126,859
	Averages.....	.....	.....	.....	.....	$1.15	.....

Mines in 1900, 16.
New mines, 2.
Abandoned, 3.
Mines in 1901, 15.

Wabash County—Seventh District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	A. B. Keen, Keens	Frundsville...	1,712	1,520	192	$1.37	$2,240
2	T. H. Kelkison	" ..	802	802	.....	1.37	1,099
3	W. Batson, Bluff.....	Keensburg ...	1,278	960	318	1.25	1,423
	Totals.....	.....	3,792	3,282	510	.....	4,758
	Averages	.....	.....	.....	.....	$1.33	.....

Mines in 1900, 0.
New mines, 3.
Abandoned, 0.
Mines in 1901, 3.

Saline County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
13,200	.....	12,000	110	25,590	.....	$0.45	.....	40	6	3	11	60	1
104,268	14,186	.....	172	118,454	.....	.45	.....	110	17	2	14	143	2
.....	.....	1,252	105	1,252	.....	.40	.....	4	.....	....	1	5	3
.....	.....	720	185	800	.....	.40	.....	2	.....	....	1	3	4
.....	.....	580	200	580	.....	.50	.....	2	1	....	....	3	5
.....	.....	30	15	30	.....	.45	.....	1	.....	....	....	1	6
.....	.....	128	40	128	.....	.45	.....	2	.....	....	....	2	7
.....	.....	90	60	90	.....	.45	.....	1	.....	....	....	1	8
.....	.....	311	160	311	.....	.45	.....	1	.....	....	....	1	9
.....	.....	415	84	415	.....	.50	.....	3	.....	....	1	4	10
.....	.....	48	32	48	.....	.50	.....	1	.....	....	....	1	11
.....	.....	100	60	100	.....	.45	.....	1	.....	....	....	1	12
.....	.....	50	27	50	.....	.45	.....	1	.....	....	....	1	12
.....	.....	453	150	453	.....	.45	.....	2	1	....	....	3	14
.....	.....	400	142	400	.....	.45	.....	2	.....	....	....	2	15
117,468	14,186	16,577	....	148,701	.....	.....	.....	173	25	5	28	231	
.....	.....	.....	103	.....	.....	$0.45	.....	.....	.....	....	....	.....	

Wabash County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	.....	1,712	200	1,712	.....	$0.50	.....	3	1	2	2	6	1
.....	.....	802	82	802	.....	.50	.....	2	.....	1	1	3	2
.....	.....	1,278	100	1,278	.....	.50	.....	4	.....	2	2	6	3
.....	.....	3,792	....	3,792	.....	.....	.....	9	1	5	5	20	
.....	.....	.....	127	.....	.....	$0.50	.....	.....	.....	....	....	.....	

Washington County—Seventh District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	Hugh Murray	Nashville	11,138	8,122	3,016	$1.35	12,693
2	Adam Kuhn	DuBois	24,000	12,000	12,000	.95	18,240
3	H. Waitland & Co	Okawville	700	600	100	2.00	1,250
	Totals		35,838	20,722	15,116		$32,183
	Averages					$1.37	

Mines in 1900, 2.
New mines, 1.
Abandoned mines, none.
Mines in 1901, 3.

Williamson County—Seventh District—1901.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
1	St. Louis Big Muddy Coal Co, Daws	Carterville	244,470	54,004	190,466	$1.18	$231,763
2	Carterville Coal Co	"	144,394	21,754	122,640	1.00	101,765
3	New Ohio Washing Coal Co., No. 1	"	105,622	22,048	83,574	1.00	95,298
4	New Ohio Washing Coal Co., No. 2	"	65,418	15,995	49,423	1.00	53,352
5	Robert Dick Coal Co	"	33,485	4,830	28,655	1.00	27,109
6	Independant Coal Co	"	60,000	15,000	45,000	1.10	56,000
7	John A. Young	"	3,096	3,096		1.25	3,870
8	Big Muddy Coal & Iron Co., No. 7	Herrin	310,214	80,359	229,855	.95	240,743
9	Sunny Side Coal Co., No. 1	"	91,662	26,958	64,704	.95	72,618
10	Chicago & Carterville Coal Co., No. 1	"	76,836	17,579	59,257	1.00	65,417
11	John Reed	"	2,149	1,743	406	1.00	1,973
12	Williamson County Coal Co., No. 1	Lake Creek	80,000		80,000		64,000
13	New Virginia Coal Co., No. 1	"	1,307		1,307		915
14	Crab Orchard Coal Co	Marion	57,597	8,807	48,790	.75	36,480
15	Southern Ills. C. M. & W. Co., No. 1	"	25,900		25,900		20,720
16	Southern Ills. C. M. & W. Co., No. 2	"	154,108		154,108		121,366
17	Southern Ills. C. M. & W. Co., No. 3	"	14,598		14,598		11,678
18	Southern Ills. C. M. & W. Co., No. 4	"	101,811		101,811		81,449
19	Chicago Big Muddy Coal Co	"	28,895	5,183	23,712	.95	22,638
20	Robert Canfield	"	553	60	493	1.25	548
21	William P. Allen	Spillertown	1,000	1,000	600	1.25	1,850

Washington County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
800	.....	8,888	192	11,138	.....	$0.49	.....	28	6	....	4	38	1
19,000	.....	4,000	200	24,000	.....	.45	.....	40	7	2	5	54	2
.....	.....	600	....	700	.....	.45	.....	3	.....	....	1	4	3
19,800	.....	13,488	....	35,838	.....	.....	.....	71	13	2	10	96	
.....	.....	.....	196	.....	.....	$0.46	.....	.....	.....	....	....	.....	

Williamson County—1901—Continued.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton for—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
234,530	.....	2,375	240	244,470	.....	$0.42	.....	172	40	4	42	259	1
139,879	.....	.....	284	144,394	.....	.42	.....	87	30	9	21	147	2
.....	.....	300	210	105,622	.....	.42	.....	90	15	6	12	123	3
161,160	.....	.....	165	65,418	.....	.42	.....	85	16	2	11	114	4
32,848	.....	153	242	33,485	.....	.42	.....	36	5	2	7	50	5
55,000	.....	4,000	228	60,000	.....	.42	.....	50	10	2	10	72	6
.....	.....	3,096	200	3,096	.....	.42	.....	4	1	....	3	8	7
289,517	.....	2,026	245	310,214	.....	.42	.....	243	39	3	30	315	8
88,773	.....	757	180	91,662	.....	.42	.....	91	17	3	13	124	9
72,984	.....	351	215	19,754	66,082	.42	$0.35	59	21	4	33	117	10
.....	.....	2,149	75	2,149	.....	.42	.....	3	1	....	2	6	11
80,000	.....	.....	300	80,000	.....	.42	.....	140	20	3	12	175	12
920	.....	387	70	1,307	.....	.42	.....	7	2	....	6	15	13
55,713	.....	600	195	17,548	40,049	.42	.35	55	37	2	9	103	14
.....	.....	.....	144	25,900	.....	.42	.....	30	8	2	7	47	15
.....	.....	.....	180	115,358	38,750	.42	.35	100	38	8	20	166	16
.....	.....	.....	106	14,598	.....	.42	.....	14	4	....	4	22	17
293,549	.....	468	198	3,248	98,563	.42	.35	60	18	3	13	94	18
26,877	.....	276	160	3,400	25,495	.42	.35	40	10	1	10	61	19
.....	.....	553	58	553	.....	.42	.....	2	1	....	2	5	20
.....	.....	1,600	150	1,600	.....	.42	.....	4	.....	.....	.....	4	21

Williamson County, Seventh District—Concluded.

Number.	Name of Operator.	Postoffice Address of Mine.	Output—Tons.			Average value of lump coal at the mine.	Aggregate value of total product.
			Total.	Lump.	Other grades.		
22	E. E. Ensminger	Crab Orchard.	820	800	20	$1.00	$815
23	Edmonds & Collins	"	300	300	.....	1.00	300
24	George Morow	"	400	400	.....	1.00	400
25	T. Motsinger	"	200	200	.....	1.00	200
26	T. H. Willford	"	150	150	.....	1.00	150
27	G. G. Brush	"	200	200	.....	1.00	200
28	Chas. Dunsford	Absher	150	150	.....	1.00	150
29	John Reeves & Co.	Pulley's Mill.	25	25	.....	1.00	25
	Totals	.....	1,605,960	280,641	1,325,319	.....	$1,313,835
	Averages	.....	.....	.....	.....	$1.01	.....

Mines in 1900, 26.
New mines, 5.
Abandoned mines, 3.
Mines in 1901, 29.

Williamson County, 1901—Concluded.

Disposition of Output—Tons.			Days of active operation.	How Mined—Tons.		Price Paid per Gross Ton For—		Employes.					Number.
Loaded on cars for shipment.	Supplied to locomotives at the mine.	Sold to local trade.		By hand.	By machine.	Hand mining.	Machine mining.	Average number of miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
.....	.....	820	120	820	.....	$0.42	.....	3	.....	....	1	4	22
.....	.....	360	60	300	.....	.42	.....	2	.....	....	....	2	23
.....	.....	400	80	400	.....	.42	.....	2	.....	....	....	2	24
.....	.....	200	50	200	.....	.42	.....	1	.....	....	....	1	25
.....	.....	150	60	150	.....	.42	.....	1	.....	....	....	1	26
.....	.....	200	50	200	.....	.42	.....	2	.....	....	....	2	27
.....	.....	150	50	150	.....	.42	.....	1	.....	....	....	1	28
.....	.....	25	6	25	.....	.42	.....	2	.....	....	....	2	29
1,531,750	.....	21,336	....	1,337,021	268,939	.....	.....	1,387	333	54	268	2,042	
.....	.....	.....	149	.....	.....	$0.42	$0.35	.....	.....	....	....	.....	

Recapitulation by Counties—

Counties.	Number of mines.	Number of shipping mines.	No. of mines in local trade.	Total Tons Produced.	Average Value Per Ton at the Mine.						Aggregate value of total product.	Employes.		
					Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Waste.		Number of miners.	All other employés.	Total.
Gallatin	11	1	10	21,414	$1.15	$0.957	.....	$0.75	$0.28	$0.202	$19,782	60	27	87
Hamilton	2	..	2	840	1.25	1.25	.....	.....	.....	.....	1,050	9	.....	9
Jackson	26	8	18	911,245	1.227	0.958	$1.00	0.80	0.583	0.179	864,432	705	324	1,029
Jefferson	2	1	1	35,427	1.50	1.00	.....	.....	0.30	.....	38,564	45	32	77
Johnson	4	1	3	4,209	1.25	0.933	.....	0.75	0.75	0.25	4,653	17	6	23
Perry	21	14	7	664,278	0.963	0.858	1.00	0.888	0.433	0.098	540,056	918	386	1,304
Randolph	14	11	3	413,549	0.751	0.80	.....	0.43	0.138	0.075	290,905	461	168	629
Saline	15	2	13	148,701	1.15	0.85	.....	0.90	0.253	0.25	126,859	173	58	231
Wabash	3	..	3	3,792	1.333	1.12	.....	0.80	0.25	.....	4,756	9	11	20
Washington	3	2	1	35,838	1.137	0.843	.....	0.54	0.30	0.213	32,183	71	25	96
Williamson	29	17	12	1,605,960	1.016	0.818	1.03	0.816	0.615	0.145	1,313,811	1,387	655	2,042
Totals	130	57	73	3,845,253	.....	.....	.....	.....	.....	.....	$3,237,049	3,855	1,692	5,547
Averages	...	...	...	.....	$1.037	$0.847	$1.021	$0.812	$0.53	$0.157	.....	.....	.....	.....

Whole number of mines reported in 1900, 127.
Number of new mines opened during the year, 20.
Number of mines exhausted or abandoned during the year, 17.
Whole number of mines reported for 1901, 130.

Seventh District—1901.

Disposition of Output—Tons.				Average number of days in operation.	How Mined—Tons.		Prices Paid Per Ton for—		Number of kegs of powder used for blasting coal.	Steam Boilers.	
Loaded on cars for shipment.	Supplied to locomotives at mines.	Sold to local trade.	Consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.		No. of mines using.	Number in use.
7,000	1,500	12,366	548	120	21,414	.....	$0.484	.....	619	2	4
.....	.....	840	.....	70	840	.....	0.45	.....	8	....	....
784,804	72,986	15,744	37,711	140	373,955	537,290	0.45	$0.38	12,943	9	49
7,071	19,781	7,375	1,200	137	4,113	31,314	0.50	0.43	302	1	4
2,500	.....	1,679	30	152	4,209	.....	0.506	.....	94	....	....
583,629	33,653	22,415	24,581	175	564,686	99,592	0.461	0.42	18,598	17	36
385,342	6,081	15,181	6,945	180	413,549	.....	0.49	.....	14,522	5	7
117,468	14,186	16,577	470	103	148,701	.....	0.45	.....	5,130	3	9
.....	.....	3,792	.....	127	3,792	.....	0.50	.....	267	....	....
19,800	.....	13,488	2,550	131	35,838	.....	0.462	.....	916	2	4
1,531,750	.....	21,336	52,874	149	1,337,021	268,939	0.42	0.35	44,921	20	60
3,439,364	148,187	130,793	126,909	.....	2,908,118	937,135	.....	.....	98,320	59	173
.....	.....	.....	.....	147	.....	.....	$0.445	$0.377	.....	....	....

APPENDIX

REGISTER OF CERTIFICATED—

MINE MANAGERS.

HOISTING ENGINEERS.

MINE EXAMINERS.

AGREEMENT AS TO MINING PRICES AND CONDITIONS IN ILLINOIS.

REPORTS OF FREE EMPLOYMENT OFFICES.

MINE MANAGERS HOLDING CERTIFICATES OF COMPETENCY.

NOTE—This list includes all the mine managers to whom certificates have been issued prior to January 1, 1902.

The names which are printed in italic are those who hold both certificates of service and subsequent certificates of competency acquired through examination,

The names which are followed by the abbreviation "ex." are those who have exchanged certificates of service for those of competency without examination, under the provisions of the amendment of 1895.

The postoffice addresses here given and in all the lists following, are those recorded at the time the certificates were issued, and in many cases are not the present addresses of the certificate holders.

Name.	Postoffice.	Name.	Postoffice.
Adams, Charles T.	Rosboro	Baumer, Fred	Marquette
Adams, J. M.	Wanlock	Bauer, Valentine	Clyde
Ainsworth, Samuel	Taylorville	Baxter, William	Ladd
Ainsworth, Samuel, Jr.	"	Beaghan, Peter	Cantrall
Ainsworth, Thomas	"	*Beattie, Richard*	Murphysboro
Aitken, James	Streator	Beattie, John	Danville
Anderson, W. C.	Elmwood	Beatty, James	Mascoutah
Anderson, James	Ladd	Beatty, James H	"
Anderson, James C.	Streator	Becker, Peter	Petersburg
Andreas, Aug	Belleville	Becker, F. W.	Pinckneyville
Angel, Hiram	"	Beese, John	Birkner
Angell, Charles	"	Beharrelle, Fred	Orchard Mines
Apblett, William R.	Springfield	Bell, Richard	Gillespie
Appleby, John E.	Peoria	Bell, William	Streator
Argyle, Joseph	Coal City	Belger, John	Nilwood
Atkinson, Edward	Streator	Bengston, John A., ex	Galva
Atkinson, William	Murphysboro	Bennett, James	Odin
Atkinson, William	Braceville	Bennett, John	Centralia
Armstrong, Thomas J.	Spring Valley	Berkstresser, W. A	DuQuoin
Armstrong, William C	Marion	Berry, Jessiar	Greenview
Archer, John	Barclay	Betts, Joseph E	Belleville
Aston, Huber, ex	Fairmount	*Betz, Charles C*	DuQuoin
Archibald, David	Freeburg	Bevard, John J	Kinmundy
Ax, John	Edwardsville	Bevard, F. C.	Carterville
Axford, Thomas	Petersburg	Beveridge, David	Sorento
		Beggs, Samuel, ex	Clark City
Baker, Gustav	Streator	Biebel, Henry, ex	Rentchler
Back, Thomas	Mapleton	Biggins, James	Sorento
Bailey, William	Athens	Bingham, Robert	O'Fallon
Bailey, Joseph	DuQuoin	Bird, George W	Coffeen
Ball, Edward	Bartonville	Birtin, Henry	Pana
Barlow, Henry	Coffeen	Birtley, William P	Springfield
Barnett, Oliver	Bryant	Blair, Gus	Murphysboro
Barratt, John C.	DuQuoin	Blair, Herbert	Divernon
Barron, James, ex	Cantrall	*Blenkinsoff, Thos. N*	Cable
Barrowman, James	Braidwood	Boettcher, F. J	New Athens
Bartlett, Thomas, ex	Cuba	Boston, G. W.	Murphysboro
Bashong, Andrew	Danville	Boston, James	DuQuoin
Barwell, John	Marissa	Bottomly, Edward	Oglesby
Bates, W. H.	Winchester	Bottomly, John	"
Bates, R. D.	"	Bowers, Robert	Wenona
		Bowie, James	Braidwood

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Bracken, James A	Greenview	Crauch, J. E.	Virden
Bradenberger, F	Belleville	Crankshaw, Thomas	Decatur
Brennan, John I	Virden	Crankshaw, William	"
Bresman, William	Springfield	Crighton, Robert	Chenoa
Brockhouse, Samuel	Caseyville	Crowder, Richard A	Moccasin
Brigham, William	Marissa	Cruickshanks, John	Farmington
Brooks, Peter	Taylorville	Cruickshanks, Walter E	E. Peoria
Brown, John	Glen Carbon	Cruickshanks, William	Middle Grove
Brown, William J	Coal City	Cryer, James T	Spring Valley
Brown, William F	Pontiac	Cumming, Ambrose B	Sparland
Brown, James B	Murphysboro	Cumming, James P	"
Brown, F. M	Farmington	Cumming, John P	Braceville
Browning, J. M	DuQuoin	Cumming, Thomas S	Gardner
Brueckner, Emil	Staunton	Cumming, D. H	"
Brueggeman, George	Belleville	Cunningham, Thomas	Girard
Bulmer, John, ex	St. John	Cunningham, Cormick	Springfield
Bulmer, Benjamin	Muddy Valley	Currie, Adam	La Salle
Bundy, John	Streator		
Burdett, J. P	Colchester		
Burke, George, ex	Peru	Daenzer, Anton	Belleville
Burkhardt, John B	Mt. Olive	Dale, Henry	Murphysboro
		Dale, John	Fredonia
		Daniels, James	Belleville
Callear, Isaac	Pottstown	Danlels, Samuel	"
Cameron, David J	Pana	Daniels, Alexander	Henry
Cameron, D. S., ex	Sorento	Dauney, William	Lincoln
Cambell, William	Sandoval	*Davis, Caleb*	Collinsville
Campbell, Frank J	Athens	Davis, J. H	Cuba
Campbell, Thomas M	Pinckneyville	Davis, Thomas	Dunfermline
Campbell, H. J	Assumption	Davis, P. J	Percy
Canfield, R. A	Madisonville, Ky.	Davis, William	Litchfield
Carson, J. H	O'Fallon	*Davidson, M*	DuQuoin
Carson, Chas. W	Wolcott	Davison, James	Sparta
Carter, Charles	Birkner	Davenport, John	Harrisburg
Carter, George	"	Dawson, Daniel	Campbell Hill
Cartlidge, Oscar	Gillespie	Dawson, Richard	Athens
Carroll, John	O'Fallon	*Deans, Henry*	Percy
Casey, James F	Selbytown	Deeney, George H	Farmington
Catheart, Matthew, ex	Tilden	Denny, John J	Springfield
Center, George H	Hallidayboro	Denny, Lawrence	"
Chalderton, John	Lenz Station	Devlin, Henry	Toluca
Chambers, William	Spaulding	Devlin, Thomas H	Spring Valley
Charlton, George R	Greenview	Diamond, Peter	DuQuoin
Cherry, John T	Seatonville	Dick, Robert	"
Cherry, James	"	Dickenson, James E	Belleville
Cherry, W. S	Streator	Dickerson, J. L	Danville
Chere, George	Pleasant Plains	Dodd, William	Cable
Checkin, David	Reed City	Dodge, H. N	St. David
Chivers, Joseph	Braceville	Donahoe, James	Carterville
Christie, David	Murphysboro	Donaldson, William	Kangley
Church Henry M	Marissa	Donaldson, James W	Peoria
Clark, Martin	Decatur	*Donaley, James*	Carterville
Clark, Edward	"	Dooley, Harry	Springfield
Clark, Quinton	Braidwood	Dooner, P. J	Glenburn
Clark, Thomas	Decatur	Donnelly, P. H	Chicago
Clark, John	"	Donnelly, Henry	Braidwood
Clayton, Frank	Troy	Doughty, James	Danville
Clelland, Robert	Braidwood	Dougherty, Daniel	Virginia
Clifford, Michael J	Kewanee	Dowell, Thomas	Muddy Valley
Coar, Firman	Worden	Downing, Timothy	Briar Bluff
Collier, Frank J	Bartonville	Drake, George	Streator
Collins, Richard J., ex	O'Fallon	Duddy, John	Pana
Comford, L	Cantrall	Dudek, John	Kinmundy
Condis, Molcom	Spring Valley	*Duffner, J. W*	Belleville
Conity, Patrick	DuQuoin	Duncan, Charles	Streator
Cooper, Charles	Nilwood	Dunham, John F	Springfield
Cook, Robinson	Riverton	Dunlop, John	Odin
Condon, Charles H		Durkin, Michael	Sunfield
Connors, William	Toluca		
Connell, Nichol E	Peoria		
Conrad, William	Springfield	Eccles, John	Salem
Costello, Henry	Pana	Edwards, S. E	Centralia
Costor, George	Grape Creek	Edwards, Thomas	Springfield
Corrigan, James	Marseilles	*Edmunds, Morgan*	Mt. Olive
Courtney, James D	Westville	Ehret, Frank A	Wesley
Cowell, William	Assumption	Eller, William	Edwardsville
Craine, John E	Murphysboro	Emery, Charles	Breese
Craine, B. S	"	Emery, Joseph	Belleville
Crampton, Edward	"	English, Thomas	Streator

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Erwin, William	Belleville	Granilick, Jul. M	Belleville
Essex. George W	Soperville	Gray, Thomas R	Springfield
Evans, George	Lincoln	Gray, Peter	Pana
Evans, John Nine, ex	LaSalle	Green, Arthur	Braceville
Evans, John O., ex	O'Fallon	Green, W. H	Belleville
Evans, John	Bissell	Green, Joseph, ex	Marissa
Evans, Albert E	Streator	Green, John W	Springfield
Evans, William	Norris	Green, John	Belleville
Evans, John O., Jr	Caseyville	*Green, Robert*	Springfield
		Greenwood, John R	Edinburg
		Greenwood, Robert	DuQuoin
Fagan, Michael	Spring Valley	Greive, Peter	Collinsville
Fagan, Patrick T	Decatur	Greive, Peter, Jr	"
Fairbairn, Thomas	Streator	Griffin, John	Cantrall
Fairlie, James	Gilchrist	Grinrod, William E	Belleville
Falcetti, John B	Glen Carbon	Groom, John	"
Farnsworth, Lawrence, ex	Barclay	Grosspitch, August	"
Farnsworth, Thomas J	Spaulding	Guest, Joseph, ex	"
Felker, John	Danville	Guest, John	"
Fellows, Edward	Streator	Guiney, James T	Braidwood
Ferguson, John	Reed City		
Ferguson, Walter	Braidwood		
Ferguson, William	DuQuoin	Haddick, John, Jr	Cable
Finfrock, M. M	Pana	Haddick, William, ex	Sherrard
Flavel, Jonah	DuQuoin	Haddow, Thomas	Pana
Fleming, James	Decatur	Hagerton, Joseph	St. John
Fleming, Jacob	Kewanee	Haile, George	Ladd
Fletcher, John	LaSalle	Hallemeuer, Julius, ex	Golden Eagle
Fletcher, John J	Collinsville	Hall, Matthew	Braceville
Fletcher, T. C	"	Hainsel, Daniel	Lenzburg
Fletcher, William	"	Halbert, J. A	Westville
Foley, George, ex	LaSalle	Hamilton, Thomas	Nashville
Foley, W. E	Mapleton	Hanley, John H	Springfield
Forsythe, Peter	Centralia	Hannah, Thomas	Iles Junction
Forsythe, Robert	Murphysboro	Hardin, Joseph H	Vandercook
Foster, William	Lincoln	Harding, Enos	Birkner
Foster, James	Marion	Harding, Thomas F	Danville
Fohl, Bernard, ex	Belleville	Harding, William	Lebanon
Francis, T. L	Braidwood	Hardy, Rufus E	Murphysboro
Frazee, William H	Danville	Harkes, William	Coal City
Franken, Benard	Lincoln	Harper, William J	Springfield
Frew, Archibald	Moweaqua	Harper, John	Colchester
Freer, James	Peoria	*Harrison, Ernest*	Streator
Friska, Jan	Edwardsville	Harrison, John	Virden
Fritz, William, ex	Breese	Harrison, John, ex	Odin
		Harrison, William	Murphysboro
		Harrison, James	Athens
Gaffigan, Michael	Petersburg	Harrop, James T	Seatonville
Gaffigan, Patrick J	Springfield	Hartman, Frank, ex	Murphysboro
Gailbraith, George	Tamaroa	Hartman, Wm	Freeburg
Garrity, John	Riverton	Haskins, George H	Grape Creek
Gaul, Henry J	Ridge Prairie	Hauck, Fred	Glen Carbon
Gavin, Barney	Spaingfield	Hawkins, Sidney	Belleville
Geisler, Ernest	Golden Eagle	Heyes, Henry	Streator
Gell, Philip	Gilchrist	Hebenstreit, Bruno	Staunton
Gibson, Michael	Spring Valley	Hebenstreit, E. W	"
Gilbert, Edward	Niantic	Hebenstreit, J. P	"
Giles, William	Gillespie	Helfrich, Henry	Rentchler
Gilchrist, John W	Gilchrist	Henderson, Edward	Springfield
Glass, William H	Pana	Henderson, Joseph	Coal City
Goalby, John F	Gillespie	Henderson, Thomas	Marissa
Goddard, Benjamin B	DuQuoin	Henley, J. H	New Athens
Goddard, William	"	Henley, Richard	Niantic
Golder, William	Cuba	Heppard, George	Tilden
Golden, George	Springfield	Henry, Frederick	Kewanee
Golden, William D	"	Henry, John T	Pontiac
Goodall, George	Assumption	Henry, Philip	Kewanee
Gordon, Ephriam G	Wanlock	Heriot, James	Spring Valley
Grabuck, R. H	Staunton	Hetherington, Benj. M	LaSalle
Graham, Hiram	Virden	Hickey, John	Springfield
Graham, John W	Dunfermline	Hicks, Rd. J	Sherrard
Graham, Louis A	Jacksonville	Higbee, A. W	Wyoming
Graham, William	Virden	Higbee, James	"
Graham, David L	Springfield	Hill, Marshall	Carterville
Graham, John	Marion	Hillary, Edward	Colchester
Grant, Peter, Jr	Peoria	Hind, John A	Moline
Gratz, Gottleib	Hornsby	Hissong, Charles	Tilden

Certificates of Competency.—Continued.

Name.	Postoffice.	Name.	Postoffice.
Hoffman, John	DuQuoin	Kelley, Robert D	Carbon Hill
Holmes, Thomas F	Lincoln	Kelley, J. D., Sr	"
Horning, Charles A	Harrisburg	Kempper, Henry	Gillespie
Houston, Robert	Percy	Kenney, Thomas	Springfield
Howell, Thomas H	DuQuoin	Kerr, John	Rushville
Howell, D. J	"	Kidd, Alexander	Oglesby
Howells, Eben	Braceville	Kidd, Andrew	"
Howells, T. J	DuQuoin	Kidd, W	Ridge Prairie
Hoye, James	Braidwood	*Kidd, Neugene*	"
Hoye, William	"	Kienbush, David	Edwards Station.
Huddy, T. H	Staunton	Kirby, James	Athens
Hudson, Thomas	Etherly	Kirchner, Frank	Belleville
Hughes, James	Braidwood	Kirkwood, Martin	Berkner
Hughes, John W	"	Klinginfus, Otto	Belleville
Hughes, Hugh J	Pana	Kloever, Joseph	Pana
Hughes, John J	Litchfield	Knapp, Charles	Seatonville
Humme, J. A	Hillary	Knies, Henry	Breese
Hummert, Henry	Breese	Kortkamp, Wm	Hillsboro
Humphreys, Edward	Murphysboro	*Kramer, Anthony F*	Sato
Hunt, Albert J	Edwards	Krantz, Jacob	Belleville
Hutton, James, ex	Tallula		
		Lacour, August	Bartonville
Iberson, James	Athens	Laesser, Adolph	Belleville
Irwin, James M	Pontiac	Lander, Alexander	Carterville
Issinghaus, William	Lebanon	Large, James M	Athens
Izat, William	Litchfield	Laws, J. M	Cuba
		Lawson, John	Mt. Olive
		Lawson, Thomas	Lake Creek
Jackson, George W	Cable	Ledford, Edward E	Harrisburg
Jacobson, Charles P	St. David	Lee, Robert	Cable
James, John	Mt. Olive	Lee, Robert	Sherrard
James, Johan	Grape Creek	Lee, Shellcross G	Canton
Jaques, William	Belleville	Lee, William J	Cable
Jaques, Richard	"	Lehwold, Herman A	Springfield
Jefford, R. H	Kingston Mines	Leming, W. C	DuQuoin
Jefford, Thomas H., ex	Kingston	Lettsome, William	Carbon Hill
Jeffrey, Peter	Carterville	Lettsome, Absalom	"
Jenking, Alexander	Dunfermline	Lewis, Charles F	Sparta
Jenkins, Thomas C	Murphysboro	Lewis, James	Bryant
Jenkins, J. A	Dunfermline	Lewis, William	Streator
Jerremire, William M	DuQuoin	Lindley, Richard	Collinsville
Jerrell, John W	Equality	Lindsay, John O	DuQuoin
John, Evan D	Spaulding	Linsky, P. J	Braidwood
Johnston, Cochran	Spring Valley	Lister, James H	Peters Station
Johnston, Samuel	Oglesby	Little, Peter	Peoria
Johnston, William	Marion	Little, Thomas	Summerfield
Jolly, Thomas J	Collinsville	Lloyd, David J	Edinburg
Jones, Charles	Marissa	Lloyd, Rowland R	Barclay
Jones, David	"	Lloyd, John E	Danville
Jones, D. L	Taylorville	Lloyd, Thomas	Rentchler
Jones, John T	Lebanon	Long, Thomas	Wanlock
Jones, Edward	Oglesby	Lord, John S	Springfield
Jones, Harry D	Riverton	Lord, Henry L	Virden
Jones, John H	DuQuoin	Love, John W	Carbon Hill
Jones, Logan	Marissa	Lowery, Frank	Orchard Mines
Jones, T. L	Ladd	Lumaghi, Joseph	Collinsville
Jones, William	Marissa	Lumaghi, Louis F	"
Jones, William E	Sheffield		
Jones, William E	Wesley City		
Jones, William M	Tamaroa	Macke, P. H	Ledford
Jordan, Robert	Streator	Malcolm, William J	Braceville
		Malloy, Henry E	Decatur
		Mallon, Harry	Springfield
Kahle, Joseph	Coulterville	Malone, Frank	Pinckneyville
Kane, Charles H	Dunfermline	Maltby, William	Braidwood
Kaney, John	Centralia	Mann, Jacob	Eascoutah
Kay, James	Sherrard	Marland, John, Jr	Wenona
Karrall, Edgar	Braceville	Marland, John, Sr., ex	"
Keating, James A	Streator	Marsh, James	Riverton
Keay, A. H. S	Seatonville	Martin, Charles	Middle Grove
Keay, John	Springfield	Martin, George	Farmington
Keefer, William	Danville	Mason, Eli	Edinburg
Keil, Matthew	Dubois	*Mason, Mark, Jr*	Sato
Keil, Peter	"	Massie, John G	Marissa
Kelley, Bernard	Litchfield	Matthews, W. S	Kinmundy
Kelley, D. J	Carbon Hill	Maxwell, Angus	Carlinville
Kelly, Frank S	Centralia	Maule, Alexander	Belleville
Kelley, Joseph G., ex	Braidwood	Mays, John F	Pana

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Mcdill, Duncan	Oglesby	McKillop, Donald	Carbon Hill
Meehan, Patrick	Breeds	McLaren, Archibald	"
Meehan, Peter	Williamsville	McLaughlin, William	Auburn
Michaels, Theodore	Belleville	McLaughlin, John	Girard
Millard, John	Peoria	McLean, Robert	"
Miller, Edward	Sorento	McManamon, Patrick F	Spring Valley
Milburn, Thomas	Loceyville	McMorrow, Michael	Farmington
Middleton, James L	Sandoval	McMath, George	Carterville
Michaels, Lewis	Belleville	McMurtie, A. B	Bryden
Michaels, Otto L	"	McWhinnie, Andrew	Virden
Miller, Alexander	Ridge Prairie	McMorrow, Thomas	Farmington
Miller, Hugh	Coal City		
Miller, William	Lenzburg		
Miller, George W	Pawnee	Nael, Reese	Kangley
Milem, John	Norris	Neal, Albert M	Murphysboro
Millett, Thomas	Collinsville	*Neal, William*	"
Millhouse, John G	Spring Valley	Needles, Thadeus	Glenburn
Mills, T. J	Cable	Neeson, Richard	Divernon
Mitchell, T. J	Pana	Neil, Peter, ex	Bunker Hill
Moffat, R. E	Percy	Newcomb, H. C	Pana
Moffatt, Thomas	"	Newman, Henry T	Springfield
Monaghan, Edward	Carbon Hill	Newsam, John	Kingston
Monaghan, William	Braidwood	Newsam, Richard	Orchard Mines
Moore. Alexander J	Springfield	Newsam, Richard, Jr	Kingston Mines
Moore, Samuel	Chicago	Newsam, Thomas	"
Moreland, John, Jr	Wenona	Newsam, Thomas, Jr	"
Moran, Mark	Pekin	Nesbit, Charles, ex	Millstadt
Morin, Jeremiah	Danville	Nevener, John	Belleville
Morrin, D. A	"	Nicholson, George A	Cuba
Morgan, George	Springfield	*Nicholson, William*	"
Morgan, Joseph	Streator	Noll, Peter	Belleville
Morgan, Isaac B	Ladd	Nold, Fred	Freeburg
Morris, G. W	Lebanon	Nordeen, Peter	Galva
Morris, J. H	Nashville		
Morris, James F	Springville		
Morris, P. K	Roanoke	O'Beirne, John	Spring Valley
Morris, William M	Belleville	O'Brien, John W	Toluca
Morris, Joseph	Nashville	O'Brien, John J	Marquette
Morris, Robert	Marion	O'Brien, James	Belleville
Morrissey, Thomas	Lebanon	O'Brine, Patrick J	Spring Valley
Morrison, D. H	Girard	O'Brine, William	Pana
Morton, Andrew	Virginia	O'Connor, James	Spring Valley
Morton, Robert	"	O'Connor, John	Braidwood
Moss, Thomas	Staunton	O'Connor, Patrick F	Paisley
Mould, Thomas R	O'Fallon	O'Leary, John	Marquette
Murdock, John	Breeds	Opie, William	Sandoval
Muir, Hunter	Etherley	Owen, William	Tallula
Murphy, Jerry	Chatham	Owens, Robert	Marion
Murphy, John	Braidwood	Parker, Albert	Collinsville
Murphy, Patrick	Springfield	Passent, Wm. C	Barclay
Murray, A	Nashville	Patchet, John	Murphysboro
Murray, Hugh	Sparta	*Patterson, J. C*	Assumption
Murray, J. H	Galva	*Peart, John*	Braidwood
Murrie, Archibald	Centralia	Penwell, C. T	Pana
Mustard, George	Norris	Percell, Thomas	Norris
McAllister, Hector	Streator	Peterf, J. D	Murphysboro
McAnarney, James	Girard	Pettier, Moses	Spring Valley
McCann, Patrick	Lincoln	Phillips, James	Minonk
McCleary, John	Cantrall	Pick, Edward	Centralia
McCleery, James	Kangley	*Pickett, Robert*	Spring Valley
McClintock, John	Murphysboro	Picton, Joseph	St. David
McCraner, James	Girard	Picton, John W	Farmington
McCrindle, David	Oglesby	Pierson, Robert	Harrisburg
McCullough, W. F	Mapleton	Pierce, William	Edinburg
McDill, James	Pana	Poelker, Joseph	Germantown
McDonald, Robert	Streator	*Pool, Edgar E*	Murphysboro
McDonald, William	Braidwood	Potter, George	Mapleton
McFadden, Joseph	Danville	Postle, John	Braceville
McFarland, William A	Edwardsville	Powell, Albert E	Belleville
McGreachin, Robert	Sorento	Powell, Evan	Murphysboro
McGinnis, John	Springfield	Powell, David, ex	Braceville
McGunnigal, John	Murphysboro	Powell, J. E	Sato
McGunnigal, James	Marissa	Powell, Thomas H	Belleville
McGunigal, Bernard	Spring Valley	Powell, Samuel	Roanoke
McKean, Isaac	Coal City	Prince, Thomas	Gillespie
McKeown, Frank	Decatur	Proctor, Michael J	Toluca
McKernan, James	Collinsville	Prudent, Edward	Centralia

Certificates of Competency—Continued.

Name.	Postoffice.
Pryce, John M.	Coal Valley
Pugh, Daniel	St. John
Pullen, Charles	Litchfield
Pullen, James	Sorento
Raby, Robert A	Cuba
Radford, Thomas, ex	Bloomington
Radford, William	Cuba
Radford, James	Springfield
Radford, William T.	Bloomington
Rae, Robert	Braidwood
Ramsey, Charles J	Gillespie
Randle, Jesse	Birkner
Rarick, Phil. W	Glen Carbon
Rauth, John	Belleville
Rasmussen, James E	Mineral
Rasbotton, Frank	Kingston
Reagan, Daniel	Muddy Valley
Reavley, Robert	Riverton
Redyard, John	Odin
Reeb, Philip	Belleville
Reed, W. M	Girard
Reed, Wm. B	Wilsman
Reents, August	Kramm
Reese, Daniel	Danville
Reid, Andrew	Springfield
Reid, Joseph	Marion
Reilley, Edward	Danville
Reimann, John	Belleville
Rennison, Henry	St. John
Reynolds, William	East Peoria
Reynolds, John	Streator
Rhodes, Jefferson	Pana
Richards, John	Murphysboro
Richardson, Joseph	Litchfield
Richardson, Robert	Carterville
Ridgely, O. L	Mt. Olive
Ritchie, Alex., Sr	Clinton
Ritchie, A., Jr	Trenton
Roberts, Benjamin D	Streator
Roberts, Hiram	Collinsville
Roberts, John D., ex	Streator
Roberts, Thomas D	"
Robinson, Henry	Gardner
Robinson, John T	Kingston Mines
Robinson, L. E	"
Rodden, John	Pana
Rodenburg, Charles	Belleville
Roe, Samuel	Oglesby
Roe, Thomas	"
Rogers, Josiah	Braidwood
Rollo, George	Mount Olive
Rollo, John	Gillespie
Rollo, William	Pana
Rookin, Thomas	Edwards Station
Ross, David	Oglesby
Rosbottom, James	Kingston Mines
Rowland, Charles, ex	Belleville
Rundle, John C	Colchester
Rundle, William	Pekin
Rutledge, Walton	Alton
Rutledge, J. J	Staunton
Ryan, James	Springfield
Ryan, Thomas	N. Springfield
Sangrelet, Marshall	Mount Olive
Sanders, John M	Hanna City
Sansom, Henry S., ex	Streator
Sauer, Frederick	Belleville
Scaife, William	Coal City
Schroll, Joseph	Bartonville
Schram, Richard	Belleville
Schellschmidt, Ernst	East Peoria
Scully, William J	Glen Carbon
Scurrah, Castling R	Braceville
Secor, Frederick D	Odin
Senioe, George	St. John
Sevan, Charles	Danville
Shaw, James	Peoria
Sharp, Montgomery, ex	Coal City
Sholeen, R. A	Galva
Sholl, Joseph	Bartonville
Shields, Frank D	Pana
Schuler, Charles	Gilchrist
Sidall, John S	Pana
Sidall, James	Streator
Siddle, John	Edwardsville
Simkin, Samuel	Streator
Simmons, Thos	Canton
Simpson, Isaac	Glen Carbon
Simpson, David	Spring Valley
Simpson	Springfield
Simpson, George A	"
Simpson, George C	"
Simpson, William J	Collinsville
Simpson, Thomas	"
Simpson, Thomas	O'Fallen
Sisk, A. J	Equality
Skinner, Alexander	Diamond
Skinner, David	"
Skinner, John	"
Skinner, John	Astoria
Skelton, A. H	Coal City
Sloan, Edward C	Wesley City
Small, James	Middle Grove
Smethurst, Nathan	Spring Valley
Smith, Alexander M	Sandoval
Smith, David P	Dawson
Smith, Felix	Birkner
Smith, James	LaSalle
Smith, George A	Sandoval
Smith, James L	Mount Olive
Smith, James	East Peoria
Smith, James L	Riverton
Smith, James P	Collinsville
Smith, Henry W	Springfield
Smith, Joseph	Bloomington
Smith, T. J	Pana
Smith, William	Athens
Smith, William G	Riverton
Smith, Thomas	Belleville
Smith, W. J	Girard
Sneddon, Richard	Virden
Sneddon, Alexander	Peoria
Sollenberger, Harry C	Dunfermline
Solamon, John	Springfield
Spires, Alfred	Braceville
Springer, Albert R	Glen Carbon
Staehle, August	Belleville
Stanton, William E., ex	Colchester
Stearns, James	Hallidaysboro
Steiner, Benjamin	Sato
Steel, Alexander	Streator
Steel, Daniel	Collinsville
Steel, James	Spring Valley
Steel, Neal	Centralia
Stewart, D. G	Seatonville
Stirrat, James	Peoria
Stockett, Howard N	Springfield
Stockett, Lewis	Collinsville
Stockett, Thos. R, Jr	St. Louis, Mo.
Stockman, W. H	DuQuoin
Stoneburner, L. L	Moweaqua
Storrie, Archibald	Seatonville
Stratman, Henry, ex	Springfield
Straley, Peter	Canton
Strebel, George	Edwardsville
Strickland, John	Coal City
Sutton, Thomas	Milstadt
Swansberg, John L	Danville
Swarthout, J. P	Peoria
Syson, Frank	Niantic

Certificates of Competency—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Tallman, John, ex	Kangley	Weisenborn, F. E	Mt. Olive
Taylor, Charles	Edwards	Wenneborg, Otto	Springfield
Taylor, Daniel	"	Westwater, David	Pekin
Taylor, Henry	Belleville	Westwood, Albert	Belleville
Taylor, James	Edwards	Westwood, John	Streator
Taylor, Joseph	Springfield	*Westwood, Thomas*	Belleville
Taylor, Thomas, ex	O'Fallon	Wheatcraft, James	Elmwood
Taylor, Thomas, ex	Springfield	Whennen, Charles	Oglesby
Tenney, Charles	Danville	Whitaker, John	Collinsville
Thain, James	Riverton	Whitaker, Wm. J	"
Thom, Alexander, ex	Coal City	White, John R	Belleville
Thomas, H	Westville	White, Owen	Seatonville
Thomas, John R	Ladd	Whitehead, Joseph	Farmington
Thomas, T. J	Collinsville	*Wild, James*	Murphysboro
Thomas, Reese	Spaulding	Wiley, Robertson	St. David
Thomas, David B	Murphysboro	Wilkinson, Frank	Westville
Thomas, Richard	Ridge Prairie	Wilkinson, T. H	Diamond
Thome, Martin, ex	Bartonville	Williams, James	Murphysboro
Thompson, John	DeSota	Williams, Jeff	Farmington
Thompson, Robert C	Murphysboro	Williams, John	Riverton
Thompson, Mark	Sherrard	Williams, Louis	Belleville
Thornton, James	DuQuoin	Williams, Robert H	Girard
Thorand, Joseph	Trenton	*Williams, Walter*	DuQuoin
Tolle, E. B	Kingston Mines	Williams, W. W	Hornsby
Tregoning, Walter	Murphysboro	Williamson, Wm	Staunton
Twomley, Edwin, ex	Coal Valley	Wilson, John	Coal City
Turton, William	Edwardsville	Wilson, David	Murphysboro
		Wilson, David	Spring Valley
		Wilson, Hugh	Kinmundy
Ulrich, Casper	Tilden	Wilson, Alexander	Carbon Hill
		Wilson, Hiram	Carbondale
		Wilson, H. C	Pekin
Vallow, Charles	Kinmundy	Wilson, John B	Sparta
Vandebur, John, ex	Springfield	Wilson, John J	Wesley City
Vicary, John, ex	Lincoln	Wilson, Robert	Roanoke
Vose, John	Springfield	Wilson, William	Middle Grove
		Wilson, Thomas	Norris
		Wilson, W. R	Reed City
Wagner, I	Mapleton	Winning, James	Carterville
Wallace, David	Carterville	Winning, Robert	"
Walland, Ed. S., ex	Bartonville	Winterbottom, John	Murphysboro
Walschtag, Stephen	Peoria	Winters, Samuel P	Bartonville
Walsh, Patrick	Springfield	Wittman, Daniel	New Baden
Walsh, Peter P	Pleasant Plains	Walschlag, Stephen, ex	Peoria
Walters, Wm. H	Staunton	Wood, Henry	Streator
Wanless, Wm. H	Riverton	Woods, William, ex	Morris
Wantling, T. J	Peoria	Wright, John	Belleville
Wantling, Thomas	Pottstown	Wright, J. W	Kingston Mines
Walters, Thomas W	Ladd		
Warren, James M	Herrin		
Watson, George R	Wyoming	Yates, John	Belleville
Watts, Thomas J	Elmwood	Young, Hiram	Girard
Watts, William	"	Young, Hugh G	Braidwood
Weber, Henry	Murphysboro		
Webster, Richard	Collinsville		
Weeks, Thomas	Streator	Zink, Peter A	Belleville
		Zoller, Robert H	Braidwood

MINE MANAGERS HOLDING CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.
Adams, Charles T	Rosboro	*Bates, W. H*	Winchester
Aslopp, William H	New Castle	*Betz, Charles C*	DuQuoin
Andreas, August	Belleville	Bolander, John	Pekin
Angel, Hiram	Glenn	*Bracken, James A*	Greenview
Atkinson, Edward	Streator	Brown, Jabez	Cutler
Axford, Thomas	Petersburg	Brown, Thomas M	Pinckneyville
		Bunting, J. H	Grape Creek
		Bushong, Andrew M	Danville
Bailey, Robert	Sunfield		
Bangart, Henry	Lincoln		
Bartlett, Thomas	Cuba	Caldwell, James	Elmwood
Barwell, John	Cutler	Cameron, Duncan S	Sorento

Certificates of Service—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Cape, Thomas	Fairview	*Meehan, Patrick*	Breeds
Chere, George	Pleasant Plains	*Meehan, Peter*	Williamsville
Christie, David	Murphysboro	Meredith, C. W.	Augusta
Collier, Frank J.	Bartonville	*Michaels, Lewis*	Belleville
Cooper, Charles	Nilwood	Miller, Nicholas	Lebanon
Costor, George	Grape Creek	*Miller, William*	Lenzburg
Crawson, Elihu	O'Fallon	*Milem, John*	Norris
Cummings, William	Rushville	*Millett, Thomas*	Collinsville
Cusack, M	Edwards	*Moffatt, Thomas*	Percy
		Monaghan, Edward	Carbon Hill
Dale, John	Fredonia	*Morin, Jeremiah*	Danville
Davenport, John	Harrisburg	*Morton, Robert*	Virginia
Davis, Caleb	Collinsville	*Murphy, John*	Braidwood
Davison, Matthew	DuQuoin	*McCleery, James*	Kangley
Deans, Henry	Percy	McDonald, Daniel	Menard
Donaly, James	Carterville	McDowell, James A	Grape Creek
Dufner, J. W	Belleville	*McKernan, James*	Collinsville
Entsminger, Emanuel E	Crab Orchard	*Neal, William*	Murphysboro
Entwhistle, Robert	Colchester	*Nicholson, William*	Cuba
Erwin, William	West Belleville	Noyd, Lewis	Galva
		Oexner, Wendelin	West Belleville
Fagan, Patrick	Decatur		
Fletcher, Adam	Ladd	Parkin, William	Sweetwater
Forsythe, Peter	Centralia	*Patterson, J. C*	Assumption
Forsythe, Thomas	"	*Peart, John*	Braidwood
Fowler, Henry	Millersburg	Pfander, Fred	Peoria
Frankin, Bernard	Lincoln	*Pickett, Robert*	Canton
		Pool, Edgar E	Murphysboro
Gilbert, Edward	Niantic	Price, David	Fairbury
Glenn, John	Peoria	Price, James L.	Danville
Goodler, Wm	Cuba	*Pullen, Charles*	Sorento
Golden, George	Springfield		
Graber, Henry	Orchard Mines	*Radford, William*	Cuba
Grant, David	Pekin	*Randle, Jesse*	Birkner
Gray, John	Roanoke	*Reynolds, William*	East Peoria
Green, Robert	Springfield	Royster, Moses L	Peoria
Greenwood, Robert	DuQuoin	Rusche, Christian	East Peoria
Grieve, Peter	Collinsville	*Ryan, James*	Springfield
Griffith, William A	Colona		
Haddick, Robert	Cable	Schmidt, Frank P	Limestone
Haensel, Daniel	Lenzburg	Shaw, Nathan	Kramm
Harrison, Ernest	Streator	*Smith, David P*	Dawson
Heinz, John L	LaSalle	*Smith, Felix*	Breese
Howe, William	Streator	Solomon, Robert	Springfield
Hoye, James	Braidwood	Spencer, George	DuQuoin
Hutton, James	Tallula	Stanway, George	Blair
Hallenmeyer, Julius	Golden Eagle	Stark, Andrew	Galva
		Stewart, David J	Seatonville
Jenkins, Eugene	Bartonville	Stuhlsatz, Michael	Kewanee
Jerremire, Wm. M	DuQuoin	*Sutton, Thomas*	Millstadt
Jones, David	Marissa	Swan, Charles	Oakwood
		Swisher, James E	St. David
Keller, George, Jr	Bartonville	Teifer, Alexander W	Morris
Kidd, Andrew	Wenona	Terrill, Thomas	Colchester
Kidd, Neugene	Ridge Prairie	*Thompson, John*	DeSoto
Kirley, Bernard	Kewanee	*Thornton, James*	DuQuoin
Klingenhagen, Henry	Belleville		
Kramer, Anthony F	Sato	Waugh, George, Sr	Peoria
		Westwood, Thomas	Belleville
Laumbattus, Philip H	Tamaroa	Wilkin, John B	Petersburg
Lenze, Charles	Belleville	Williams, John	Sato
Lloyd, Hosea W	Sheffield	Williams, John T	Coalville
		Williams, Walter	DuQuoin
Mason, Mark, Jr	Sato	Wilms, William	Springfield
Maule, Robert	Belleville		

MINE MANAGERS HOLDING CERTIFICATES OF COMPETENCY AT MINES EMPLOYING NOT TO EXCEED TEN MEN.

Name.	Postoffice.	Name.	Postoffice.
Aby, J. J.	Laura	Bryner, Leonidos	Roseville
Adams, J. M.	Denmark	Buchanan, B. M.	Streator
Aldrage, John	Danville	Bullock, Joseph	Collinsville
Aldridge, William R.	"	Bunt, Joseph	Colchester
Aldrich, M. M.	Geneseo	Bunting, C. J.	Danville
Ahlgren, Emil	Kewanee	Burdick, Frank	Industry
Alexander, Orie A.	Huntsville	Burk, W. W.	Conant
Allison, John	Loding	Butter, William	Stonefort
Allen, James T.	Pleasant View	Byrnes, John	Brighton
Allison, Elmer	Danville		
Argus, Leonard	Sato		
Anderson, Lee A.	Ottawa	Cagle, William	Frederick
Anderson, N. C	Knoxville	Cagle, John	Littleton
Anderson, M. H.	Watага	Cagdall, A. C.	Stonefort
Atkinson, Amos	Colchester	Caldwell, Thomas	Avon
Atkinson, M.	Kewanee	Campbell, Ed	White Hall
Atkinson, Chas. W.	Colchester	Campbell, Andrew F	Roseville
Axley, Edward	Roodhouse	Campbell, Francis A	Viola
		Cameron, Henry	"
		Carlson, Andrew F.	Kewanee
Backing, William	East Peoria	Carter, Elmer	Camden
Backofen, Jacob	Littletown	Carter, Joe	Kewanee
Bailey, Oliver	Carbondale	Carson, Charles H.	Fiatt
Baird, W. C.	"	Carrison, George	Colchester
Baird, Oswald	Colchester	Casteter, John	Streator
Baker, L. C.	Oakwood	Casteter, William	"
Baker, William H.	Industry	Catton, John	West Jersey
Baker, Joseph	Ottawa	Catton, C. F.	"
Bales, Joseph L.	Danville	Chadwick, E	Oak Hill
Ball, Samuel	North Alton	Charlingsworth, Amos C.	Fosterburg
Banney, H. E	Abingdon	Chesney, Alonzo T	Ava
Barber, William	Colchester	Chipping, W.	Canton
Bargreen, Charles	Streator	Chorlton, James	French Village
Barter, Charles	Bryant	Clark, James A.	Equality
Bates, Geo. H.	Kewanee	Clark, J. H.	Brimfield
Bath, Isaac	Lewiston	Clarkson, William H.	Edwards
Bath, Abraham	St. Davids	Clarkson, Lorenzo	Kickapoo
Baugh, William	Henry	Clifford, Geo. L.	Oneida
Bectler, John	Pekin	Cody, Richard	Peoria
Beddou, Benj.	Danville	Coeslpire, G.	Galesburg
Beers, M. A	Cable	Colwell, Robert	Brimfield
Beever, J. H	Farmington	Colwell, H.	Duncan
Begum, Geo. E.	Ottawa	Colburn, John R.	Vandercook
Bell, James	Morris	Colwell, George	Wyoming
Bell, Charles	Pleasant View	Covert, Lewis M.	Oakwood
Beltz, Lindolph	Carterville	Cook, Charles	Grape Creek
Bennett, Fred	Chillicothe	Cook, James K.	Etherly
Berry, John	Macomb	Cook, W. H.	Alexis
Berry, Charles	Monica	Cook, Louis B.	Etherly
Berry, W. J	Macomb	Cooper, Albert W	Petersburg
Berry, R. M	Cottage Grove	Coweus, W. P.	Pinckneyville
Beuer, Jacob W.	Castletown	Combs, J. W	Kewanee
Beuer, Joseph	"	Coulson, Foster	Wyoming
Bexton, William G.	Colchester	Cressey, George	Colchester
Bird, Daniel	Roseville	Cryer, John H	Morris
Birdois, D.	Peoria	Crew, Joseph	Chillicothe
Birdois, John	"	Croxton, Fred W.	Pleasant View
Blagden, Richard	Leaman	Croxton, Walter	"
Blessing, George	East Peoria	Crozica, E.	Etherly
Blockley, Rufus	Equality	Crowse, James W	Enion
Blue, J. W.	Grape Creek	Cunningham, Lewis	Danville
Bode, W. H. H.	Chesterfield	Cunningham, R. A	Cutler
Boden, Ed.	Preëmtion	Cummings, Wm. M.	Rushville
Boldwyn, T. W.	Vergennes	Curtiss, Sanford	Rockbridge
Boostrom, Ben B	Watага	Cutler, F. H.	Princeville
Bonnett, A. H.	Pilot		
Bowman, G. W.	Yates City		
Boyer, A. P.	Etherly	Dainty, Jabez	St. Davids
Brandt, William	Mineral	Dalton, Isam	Yates City
Brannan, James	Grape Creek	Daniel, Jay	Danville
Brinley, Ross	Danville	Daugherty, Robert T.	Table Grove
Brophy, M.	Shelbyville	Davis, Charles	Abingdon
Brown, John	Ottawa	Davis, Benjamin	Streator
Brooker, Fred	Lowell	Davis, T.	Fayette
Bryan, John	Grape Creek	Davidson, Thomas	Griffin

Mine Managers Holding Certificates of Competency—Continued.

Name.	Postoffice.
Dawson, J. C.	Deer Park Glen
Deaven, Camille	Orchard Mines
Delaney, Thomas	Avon
DeWolf, Ernest	Victoria
Denton, Fred	Petersburg
Dickinson, Joseph	Norris
Dickson, Wm. W.	Colchester
Dietrich, Phillip	Freeburg
Dills, Martin	New Burnside
Dixon, A.	Princeville
Dixon, J. E.	Kewanee
Dodds, T.	Lafayette
Doering, Wm. F.	East Peoria
Dolan, Peter	Watage
Doty, L. B.	Truro
Dougherty, P.	Preëmption
Drake, Stephen A.	Canton
Draper, A. L.	Vandercook
Dudley, Z. F.	Knoxville
Duff, Robert G.	Kewanee
Dull, E. B.	Tennessee
Duncan, John	Sheffield
Dunn, Harvey	Oscola
Durrant, H.	Brimfield
Durham, Simon	Canton
Ebel, August	Belleville
Edison, James	Ottawa
Edwards, Thomas	Streator
Edwards, T. J.	Crab Orchard
Edwards, Geo.	Huntsville
Edwards, A. G.	New Burnside
Elmwood, A. B.	Kewanee
Eiker, Geo. L.	Knoxville
Elliott, James	Caseyville
Emerick, Alonzo	Farmington
Ennis, James	Peoria
Ensininger, E. E.	Crab Orchard
Entwisble, W.	Colchesrer
Ernst, Frank	St. Johns
Espley, J. T.	Morris
Essex, G. W.	Soperville
Evans, Ed. E.	Streator
Evans, W. L.	Cottage Grove
Eynman, Albert	Lewiston
Fairley, John	Cambridge
Farrell, Hugh	Monica
Faust, Jacob	Pinckneyville
Fink, Frank	Truro
Fish, William	Appleton
Fisher, W.	Murrayville
Fisher, Alcide	Brighton
Flemming, Thomas	Morris
Flynn, William	Briar Bluff
Forester, W. M.	Equality
Foster, Geo. W.	Colchester
Foster, Thurman	Carbondale
Fox, Thomas	Lewiston
Francis, Wm. G.	Streator
Francis, C. W.	Catlin
Fredrickson, Andrew	Danville
French, Strawther	Bradford
Frisby, E. O.	Sparland
Fry, John	Ray
Gallraith, Zacharias	Morris
Gainey, Thomas	Carbon Cliff
Garland, Samuel	Kewanee
Geisler, Henry	Brighton
Gensol, Joseph	Lewiston
Giebelhausen, Gus E.	Peoria
Gerlach, Geo. F.	Sparta
Gilbride, Frank	Morris
Gillette, Charles	Elmira
Gilligan, Jackson	Industry
Glenn, Jethn	Briar Bluff
Golden, James	Kewanee
Goode, Joseph	Lombardville
Grant, August	Kewanee
Grecar, William	Coal Valley
Grice, Albert	Kewanee
Griffiths, Edward	Roodhouse
Griffiths, Thomas W.	White Hall
Griffiths, D.	Caseyville
Griffiths, James	Grape Creek
Griggs, Allison	Brimfield
Grim, David, Jr.	Victoria
Grossman, Louis	Smithton
Groth, Jno	Carbon Cliff
Groy, Max	Kewanee
Guckert, P. P.	Hampton
Gurten, Louis	Pinckneyville
Guy, Thomas	Colchester
Haiding, James A.	Wyoming
Hall, John	Colchester
Hall, Charles	Dunfeamline
Hall, Geo. W.	Newton
Hamilton, John W.	Frederick
Hamilton, John	Cuba
Handley, John L.	Coal Valley
Hanmann, Wm.	Okawville
Harnisch, Ernest	Brighion
Harrington, Frank	Farmington
Harrington, D.	Danville
Harris, Oliver	Canton
Harris, Hardy	Catlin
Harrman, John	Peoria
Harvey, John	Murphysboro
Haskins, Alfred	Grape Creek
Havens, Bert	Truro
Heathcock, George	Princeton
Heather, James	Morris
Heintz, A. F.	Kickapoo
Hendee, Isaac	Bernadotte
Henson, John E.	Denmark
Hennemann, Charles	Belleville
Herman, John	Oraville
Herkstrom, E.	Victoria
Herrington, Thomas	Princeton
Hewitt, William B.	Chenoa
Hews, W. B.	Canton
Hickson, David	Ottawa
Hissong, Charles	Tilden
Hibberd, Geo. A.	Limestone
Hillard, E.	Colchester
Hillier, Walter T.	Carbondale
Hind, Robert	Salisbury
Hinderer, Frank	Frederick
Hoar, William	Colchester
Hodge, S. M.	Danville
Hodge, John W.	Rushville
Hodge, Benjamin A.	Danville
Hodgett, Absalom	Kewanee
Hodgson, Wm.	Colchester
Hogercamp, Walter	Pontiac
Hohimer, Harry	Petersburg
Horrocks, Benj.	Henry
Howard, Charles	Modena
Hudson, Samuel	White Hall
Humes, Michael	Colchester
Hurst, John	Belleville
Isaacson, P. O.	Wataga
Ingram, Robert H.	Sparland
Irwin, James	Green River
Ivans, W. L.	Cottage Grove
Jacobe, John	Wataga
Jacquot, Augustare	Danville
Jack, John	Marion

Mine Managers Holding Certificates of Competency—Continued.

Name.	Postoffice.
Jamieson, E. J	Loding
Jameson, Guy	"
Jayne, Richard	Cuba
Jenkins, D. A	Danville
Jenner, A. T	Pinckneyville
Johnson, J	Farmington
Johnson, Benjamin	Smithboro
Johnson, J. E	Dunfermline
Jones, W. L	Bradford
Jones, C. S	Sato
Jones, W. W	Bradford
Jones, A. H	Colchester
Jones, James H	Streator
Jones, Jno. L	Peoria
Jones, Jackson	Winchester
Jones, W. H	Catlin
Jones, Wm. J	Kewanee
Jones, Evan A	Catlin
Jones, Arthur	Viola
Jones, Thomas	Peoria
Joos, Conrad	"
Jordan, Will	St. David
Jordan, Jno. L	Trivoli
Jordan, E. S.	Newton
Jourdan, Wm. L	Smithton
Kabel, Herman	Moro
Kavanaugh, J. A	Colchester
Kay, James	Atkinson
Kay, William H	Morris
Kay, Bert	Atkinson
Kay, Robert	Briar Bluff
Kear, George G	Sparland
Keen, A. G	Friendsville
Kempin, Henry	Kewanee
Kerr, William	Rushville
Kershaw, J. W	Briar Bluff
Kidd, J	Roseville
Kielhorn, William C	Shawneetown
King, Joseph	Pekin
King, Henry R	Campbell Hill
Kingston, Paris	Equality
Kimes, Oscar	Streator
Kipling, William	Colchester
Klingenfus, Emil	Belleville
Knoth, John	Roodhouse
Kortkamp, A	N. Alton
Lamay, David	Monica
Lamb, Edwin	Kewanee
Lambert, Austin H	Keensburg
Lane, James	Peoria
Laity, Richard	Calchester
Laurer, Nick	Pinckneyville
Lealard, John	Grape Creek
Lee, Thomas	Youngstown
Lee, James	Alexis
Lewis, Charles E	Galesburg
Lewis, Wallace	Cambridge
Llewrance, B	Youngstown
Lillman, Alfred	Cable
Lincoln, E	Kewanee
Linden, P	Canton
Lindbeck, P	Wataga
Lingast, L	Grape Creek
Little, George	Roseville
Little, John T	Roodhouse
Little, J. H	"
Littlefield, Joseph	Brimfield
Lloyd, Elisha	Danville
Lloyd, Benj. F	"
Lockane, David L	Lewiston
Lodging, E	Lodging
Lord, James	Galva
Lowry, Samuel	Lewiston
Loy, D. O	Atkinson
Lucking, Edward J	Fosterburg
Lyons, Maxwell	Coal Valley
Mable, William	Fairview
Mahler, G. W	Ray
Malone, Harry	DuQuoin
Mansill, Richard	Rock Island
Martin, William, Sr	Colchester
Martin, G. W	Laoc
Martin, J. B	"
Martin, J. W	Farmington
Martin, Fred	Peoria
Martin, John H	Canton
Martin, Patrick	Peoria
Martin, William, Jr	Colchester
Marriage, Joseph	Grape Creek
Marxer, Joseph	Millstadt
Marley, Richard	Atkinson
Marshall, G. A	Cuba
Marshall, J. C	Caseyville
Mason, Frank A	Carbondale
Massey, Jesse	Streator
Matsinger, Theodore	Crab Orchard
Mauck, L. F	Danville
Medearis, Jas	Henry
Meiker, B. F	Danville
Melven, R	Kewanee
Meller, Louis	Brighton
Memmer, L	Canton
Mercy, Geo	St. Davids
Merrill, R. M	Campbell Hill
Mescher, W. T	LaHarpe
Miller, Silas	Grape Creek
Miller, Eliza	"
Miller, Smith	Mapleton
Miller, L. S	Grape Creek
Miller, Geo. A	Danville
Mitchell, Robert T	Prairietown
Mobaker, John	Danville
Molloy, John	North Alton
Montooth, Chas	Bradford
Moorman, Mark	Illinois City
Morrison, Alva	Modena
Moore, Nanly	Saline Mines
Morrison, D. D	Danville
Morris, Geo. J	Millersburg
Morgan, Charles	Oneida
Mordue, Geo	Colchester
Mosher, Charles	Etherly
Moss, Oliver	Vergennes
Morton, T. J	Danville
Mowbray, Jno	Atkinson
Munts, Wm	Streator
Murphy, Fred	Belleville
Murphy, Led	Monmouth
Murphy, Chas. H	Canton
Murchesin, Kennith	Kewanee
Mustard, Elijah	Canton
Muzzy, William H	Peoria
Myers, W. H	Carbondale
Myers, Geo	Ottawa
Myers, Perry	Bethalto
Myers, Charles	LaHarpe
McAnnally, Jno	North Alton
McCartney, C. T	Alexis
McClure, Marion	Colchester
McCullough, Jas	Ottawa
McDonald, Samuel	Moro
McGovern, T. B	Oneida
McGovern, S	"
McGuire, John	Alsey
McKahan, Sam'l R	Alexis
McKane, R	Galva
McKern, William H	Danville
McLain, William H	Equality

Mine Managers Holding Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
McMichael, T. M.	New Burnside	Reiff, Jacob	Kewanee
McNaught, Henry	Williamsfield	Reeves, John	Hudgens
McNeil, William	Griffin	Revis, J. H.	Roodhouse
		Renshaw, John	Eden
		Reese, Lemuel	Streator
Nee, John J	Colchester	Rhoades, Benjamin	Shelbyville
Nelson, James	Knoxville	Ribley, R.	Cuba
Nelson, Louis	Streator	Richardson, John	Shelbyville
Nelson, Nels	Ottawa	Richardson, William	Moro
Nelson, John S.	Morris	Richards, Thomas	Ottawa
Nelson, Chris	Chandlerville	Rich, John C.	Carbondale
Newell, J.	Sparland	Richard, George	French Village
Newton, F. B.	Modens	Riley, Michael	Braidwood
Newton, Geo. H.	Toulon	Riley, Cyrus W	Mineral
Nibbelin, John	Elwood	Riley, Elerof	Atkinson
Nighswronger, Asa	Sparland	Ringer, Benjamin	Morris
Nodeon, E. W.	Wataga	Robbins, J. W.	Glasford
Norris, Floyd	DuQuoin	Robinson, Benjamin	Wyoming
Nozley, Alfred	Golden	Robinson, William	Colchester
Nyde, John E	Galva	Robinson, J. M.	Elmira
		Robinson, John W.	Wyoming
		Robinson, Robert	"
O'Daniel, Arthur	Danville	Roberts, Evan D.	Streator
Owens, Orbly G.	Stonefort	Roberts, David	Orchard Mines
		Roddis, Charles	Ipava
		Rodell, Frank	Wataga
Pahlman, H	Bluffs	Rogers, David	Kickapoo
Parker, William	Milan	Rohr, Joseph C	Alexis
Parker, W. G.	Winchester	Ronk, G. H.	Canton
Parle, Sylvester	Danville	Rook, John	Brimfield
Parr, Joseph	Princeville	Rose, James	Equality
Parthan, M	Sato	Royse, Sylvester	South Danville
Paul, John	Sheffield	Ryan, Philip	Ashland
Payne, Charles C	St. Johns		
Peck, E. E.	Canton		
Pendergast, John	Soperville	Sackville, James	Coal Valley
Penman, James	Streator	Sample, John	Laura
Penman, William	Preëmption	Saunders, W. G.	Monica
Perkins, John E	Osceola	Saupe, John J	Peoria
Perry, D. E.	Colchester	Savill, Charles A	Canton
Peters, M.	Streator	Savill, Jesse	Modena
Preston, Bryan B.	Cable	Scanlon, M. C.	Canton
Presswood, C	Pinckneyville	Schaffer, William	Danville
Price, Benjamin	Kewanee	Schmidt, August	Millstadt
Pickett, George	Danville	Scholte, William	Kickapoo
Pistor, William	Millstadt	Schultz, Fred	Braceville
Polonius, George	Colchester	Scott, John	Modena
Pollit, James H.	Canton	Selbrick, J	Monmouth
Poore, William	Kickapoo	Sergent, Frank	Belleville
Posten, M. W.	Briar Bluff	Shaffer, Solomon	Summum
Porter, William H	Macomb	Shea, John G.	Danville
Portwood, James	Lewistown	Sherrett, James	E. Peoria
Potter, L.	Mapleton	Shreffler, R. D	Pekin
Powers, James	New Burnside	Shelton, W. J	Cottage Grove
Presson, J. A.	Carbondale	Shore, William	Chandlerville
Price, John	Wyoming	Silvis, S	Carbon Cliff
Proctor, Christopher	Elmwood	Simmons, Alfred B.	Roodhouse
Pyle, Joseph F.	Kewanee	Sincox, John	Alexis
		Simpson, Charles	Wataga
		Simpson, Newton M.	Ray
Raddlebeck, Joseph	Brimfield	Simpson, Joseph	Youngstown
Raffee, Robert	Farmington	Sitting, H. P	Stonefort
Rand, John	Bryant	Sliment, James	Centre Station
Rands, Thomas	Chesterfield	Smith, Geo. W	Colchester
Ratcliffe, Arthur	Neponset	Smith, James	Princeton
Ratley, Charles	Cypress Junction	Smith, B. F	Modena
Ray, A. B.	Catlin	Smith, Thomas	Ottawa
Ratley, James E	Equality	Smith, Charles	Sparland
Ray, William	Danville	Sowerly, Joseph	Streator
Rayborn, George	Winchester	Sparks, Charles	Crab Orchard
Reed, William	Soperville	Sparks, Edgar	Astoria
Rennick, William C	Modena	Spencer, Charles	Victoria
Reed, W. B.	Wilsman	Spiller, Henry	Herrin
Reed, John	Herrin	Springman, Ed	Brighton
Reib, Conrad	Belleville	Stader, W. H.	Equality
Reid, J. Thomas	Saline Mines	St, Clair, James A.	Macomb
Reinhardt, Frank	Wataga	Steavens, Isaac	Cuba

Mine Managers Holding Certificates of Competency—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Stevens, John	Cuba	Vickery, Henry	Pottstown
Stine, William	Danville	Vogt, Leon	Shawneetown
Stone, Isaac	Colchester		
Stone, William	"		
Stone, Charles	"	Wages, E	Canton
Stone, Thomas	Carbon Cliff	Waine, James	Atkinson
Storey, Harry	Toulon	Wainwright, Arthur	Sweetwater
Straley, J. E	Canton	Walker, James	Mapleton
Straley, James H	Norris	Wallis, D. J	New Burnside
Stretch, William	Shelbyville	Walsh, John	Truro
Strewbinger, Conrad	French Village	Walsh, John	Milan
Stockton, O. F	Rushville	Walton, A. W	Princeton
Strong, Ralph	Pleasant View	Ward, J. D	Pulley's Mill
Strong, J. P	Shawneetown	Watkins, W. J	Danville
Suggett, William	Breeds	Watson, William	Wyoming
Summerson, John	Coal Valley	Wayland, James	Colchester
Summerson, Robt	"	Wearmouth, Thomas	Youngstown
Swansen, Axel	Cable	Webster, William	Colchester
Swanson, Otto	"	Weiss, W	Belleville
Swanson, Andrew	Colchester	Welford, T. H	Absher
Swenson, John	Danville	West, John C	Pine Grove
Sydall, Peter	North Alton	West, John A	"
Switzer, James	Astoria	Westerlund, John	Streator
		Whalen, M., Jr	Colchester
Tattersoll, George	Seneca	White, Charles	Wyoming
Taylor, Robert	Princeville	White, M. C	Pawnee
Taylor, Francis	Blandensville	White, Henry	Elmwood
Teague, James	Winchester	White, Wm. J	Bartonville
Teel, James C	Industry	White, John A	Frederick
Telfer, John K	Morris	Whynn, Wm. E	Coal Valley
Telfor, John W	"	Wilkinson, M. C	Danville
Tesdale, Henry	"	Willcock, Wilson	Astoria
Thompson, James F	Ray	Williams, Joseph	Mode
Thompson, Joseph	Etherly	Williamson, Andrew	N. Alton
Thompson, Joe	Grape Creek	Williams, Jerome	Tiskilwa
Thomas, William	Streator	Williams, Joseph	Preëmption
Thomas, James	Danville	Williams, W. J	Colchester
Thomas, George	Sheffield	Williams, W. P	Laoc
Thurston, John H	Wyoming	Willis, Alex	Oraville
Todd, Ralph	Kewanee	Wilson, George	West Jersey
Todd, Geo. B	Catlin	Wilson, John	Colchester
Toney, A	Grape Creek	Wilson, A. E	Macomb
Tompkins, C. S	Mineral	Wilson, Thomas E	Blandinsville
Tompkins, Harvey	St. David	Wilson, Joseph	Swan Creek
Towner, L. H	Bluff City	Wilson, Anthony	Danville
Treasure, William	Essex	Winchouse, W	"
Tucker, Charles	Mineral	Wirming, Robert	Sato
Tucker, Edward	East Peoria	Wisley, H. C	Vergennes
Tucker, P. F	White Hall	Wiseman, Ernst	Peoria
Tulk, M. B	Colchester	Wonderling, Henry	Danville
Tully, P. F	Brimfield	Wood, Benjamin	Pinckneyville
Turner, John	Lewiston	Woodcock, Wm. H	Etherly
Turner, George	"	Wood, Sam'l	Saline Mines
Tyla, H	Wataga	Woodbury, John	Green River
Tyler, Church	St. David	Woods, James	St. David
		Woodard, John	Oakwood
Underwood, J. H	Equality	Woodward, W	Soperville
		Wonders, Henry	Streator
Vandyke, William	Canton	Worthington, H	"
Varner, Wilson P	Marietta	Wren, T. K	Morris
Vaughn, William	Jubilee	Yerman, Timothy	Cuba
Vaughn, Elijah	"	Young, John A	Carterville
Vaught, John H	Shawneetown	Young, S. J	Griffin
Vezain, George	Ottawa		
		Zink, G. W	Peoria

HOISTING ENGINEERS, HOLDING CERTIFICATES OF COMPETENCY.

NOTE—This list includes all the hoisting engineers to whom certificates have been issued prior to Jan. 1, 1902.

Name.	Postoffice.	Name.	Postoffice.
Ablen, Henry	Breese	Becker, F. M.	Sandoval
Adams, Nelson	Lincoln	Behrend, A. D.	Springfield
Adams, Wm. H.	Braidwood	Beeby, William	"
Ainsworth, Samuel, Jr.	Taylorville	Beese, John E., Jr.	Belleville
Alexander, Henry	Oglesby	Bell, Mark	Danville
Alexander, W. A.	Roseboro	Bell, Frank	Tallula
Allen, David	Collinsville	Belts, Joseph E.	Belleville
Allen, C. E.	Troy	Benvunuto, Charles	Dawson
Allen, C. H.	Seneca	Berkley, N. T.	Cuba
Allgood, William	Springfield	Bertin, Henry	Pana
Altman, H. P.	Collinsville	Bienert, J. O.	Spaulding
Anderson, Henry	Lincoln	Bigelow, A. E.	"
Anderson, W. C.	Elmwood	Blake, Albert	Streator
Anderson, Norman A.	Princeville	Blackman, Ben.	Dawson
Anderson, Z. B.	Sparta	Blalock, Charles F	Naintic
Anderson, Chas. E.	Belleville	Blair, George	Streator
Andrews, Solomon	Girard	Blue, Jesse	Norris
Anthony, John C.	Belleville	Black, Jas, A.	Troy
Appleby, John	East Peoria	Blomberg, Albert	Sherrard
Appleton, Thomas	Virden	Billips, Joseph M.	Kewanee
Archer, Joseph	Barclay	Boettcher, Alfred	Freeburg
Archibald, David	Freeburg	Boggs, Dow J.	Kewanee
Armentrout, Martin	Duncan	Bohlen, Henry E.	Mt. Olive
Armstrong, C.	Muncle	Bohlander, Edward	Pekin
Armstrong, William C.	Marion	Bolton, Mark	Gilchrist
Ashman, Joseph	Murphysboro	Boring, Frank L.	Odin
Atkin, Robert R.	Tilden	Boston, William H.	Murphysboro
Atwater, Stephen	Clarke City	Boswell, William	Dunfermiline
Averill, C. P.	Colchester	Boul, Leonard	Belleville
Avery, William	Lenz Station	Bradbury, R. D	Carbondale
		Bradenburg, F.	Belleville
		Bradley, Simon	Edwardsville
Bailey, James F.	Westville	Brants, Elit G	Pekin
Baiwer, John	Braidwood	Bradley, Wm. P	Virden
Baird, Robert	Sparta	Brasel, S. R.	Centralia
Baker, Darius N.	Spillertown	Bretz, Anton	Germantown
Baker, James E.	Westville	Bretz, Matt	Belleville
Baker, C. H.	Fairmount	Bromley, Charles	Coal City
Bateman, Harry	Murphpsboro	Bromley, George, Sr.	Catlin
Balser, Henry	Springfield	Bromley, George, Jr.	Kellyville
Balsmith, Edward	Assumption	Broughton, Geo. C.	Coffeen
Bates, Thomas W.	Winchester	Brown, George A.	Iles Junction
Barber, C. E.	DuQuoin	Brown, Thomas	Moweaqua
Barber, C. W.	"	Brown, Wm. F.	Pontiac
Barber, William G.	Tilden	Brown, Wm. H.	DuQuoin
Barnhill, H. G.	Kinmundy	Brown, Edward E.	Sparta
Barr, Frank	Centralia	Brubeck, John W.	Pawnee
Barton, C. W.	Cable	Bruse, James	Athens
Barton, Charles W.	Fairmount	Bruggeman, Geo.	Nashville
Baumgartner, Geo. J.	Edwardsville	Buckley, Calvin W.	Sparland
Bath, Ameston	Cuba	Burgess, Charles E	Greenview
Beard, Charles A.	Streator	Burke, Riley M.	DeSoto
Beatty, James H.	Mascoutah	Burlinson, Aaron	Percy
Beatty, Nepha	"	Burr, Chauncey	Coulterville
Becker, Fritz	Mt. Olive	Bullock, William	Collinsville

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Bumgarner, Ross	Ledford	Cumming, Geo. A. P.	Gardner
Burrell, G. K.	Farmington	Cumming, Geo. P.	Sparland
Burrows, William	Williamsville	Cummings, Robert W.	Sparta
Butcher, Thomas	Murphysboro	Cutler, Frank H.	Princeville
Butt, Thomas R.	Litchfield		
Byrne, Michael	LaSalle		
		Daenzer, Anton	Glen Carbon
		Dalhour, Frank C.	Staunton
Cagle, Alfred	Marion	Daly, Thomas	Diamond
Cain, Daniel	Ridgley	Dana, John W.	Springfield
Cain, Daniel P.	"	Daniel, James	Belleville
Cain, John	"	Daniels, Joel	"
Callear, Isaac	Pottstown	Dankins, Thos. J.	Braceville
Cameron, Daniel	Pana	Darmstader, William	New Athens
Camp, John R.	Westville	Dave, R. J.	Glen Carbon
Campbell, Fred	Sorento	Davenport, Thomas	Harrisburg
Campbell, W. J.	Coal City	Davis, B. D.	Coffeen
Cantrell, H. T.	Farmington	Davis, Jas. A.	Hillsboro
Carlson, Alexander	Galva	Davis, Chas. W.	Edinburg
Carmichael, Thos.	Springfield	Davis, Jackson	Athens
Carpenter, Charles	Girard	Davis, E. E.	Auburn
Carr, Robert H.	Freeburg	Davis, Frank	Lincoln
Carrington, Eugene	Moweaqua	Davis, Harry J.	DuQuoin
Carsell, Hugh	"	Davis, James P.	Belleville
Carter, Albert J.	Cutler	Davis, John W.	Lake Creek
Caulk, Arthur	Sorento	Davis, John	Belleville
Cearing, Samuel A.	Springfield	Davis, L. D.	Coffeen
Chapman, J. B.	Petersburg	Davis, Thomas	Belleville
Chapman, William E.	Salisbury	Davison, John G.	St. John
Chester, David	Springfield	Davison, Joseph	Sherrard
Chew, B. R.	Carlinville	Dawson, Van C.	Spring Valley
Chitwood, William H.	Catlin	Dawson, John C.	Streator
Church, Van L.	DuQuoin	Day, Benj. F.	Peoria
Church, William	Marissa	Deans, Robert	Belleville
Christ, Philip	Wenona	Deaton, L. B.	Tallula
Clark, Christopher	Decatur	Deaton, William S.	Greenview
Clark, C. N.	DuQuoin	DeBacher, Thomas	Elmwood
Clark, John	Marquette	Dee, Henry	Glen Carbon
Clark, John R.	Virden	DeJarnett, Thomas	Mt. Vernon
Clark, John	"	Delmore, Frank	Springfield
Clark, Quintin	Braidwood	Delapp, Robert E.	Willisville
Claudin, Josh	Pekin	Delorey, William	Westville
Clayton, William	Collinsville	Dent, William	Diamond
Clickner, C. S.	Witt	Devlin, Francis	Clark City
Clifford, Michael	Kewanee	Dick, Robert	Sunfield
Clifton, William H.	Sparland	Dillon, John	Auburn
Cline, John	LaSalle	Dillon, William	"
Coatney, Grant	Fairmount	Dixon, George	Wenona
Collinton, Chas.	Belleville	Dodd, Samuel H.	Pottstown
Collingwood, Wm.	Greenview	Dodwell, Edward J.	Decatur
Collingwood, Albert E.	Springfield	Doolin, E. W.	Pontiac
Collins, Walter	Mt. Vernon	Dochring, Fred	Mt. Olive
Collins, John	Birkner	Douck, John	LaSalle
Colton, George C.	Carterville	Donaldson, J. W., Jr	Dunfermline
Compton, James	Colfax	Doolin, E. J.	Pontiac
Compton, Stephen B.	Sorento	Dougherty, Joseph	Taylorville
Conley, John	Streator	Dowler, John	Auburn
Connelly, J. J.	Murphysboro	Dowling, Ira F.	Springfield
Conway, John	Collinsville	Downing, Robert D.	Bartonville
Conway, Michael	Ladd	Drischel, Fred W.	Taylorville
Cook, Wm. D.	Westville	Drake, William	Streator
Cooper, J. H.	Nilwood	Dray, John	Troy
Cornelius, Richard	Fairmount	Duffy, Glenn E	Collinsville
Cottle, Elmer	Buffalo	Duncan, J. R.	LaSalle
Cotton, George	Halidayboro	Dunn, William L	Clark City
Cox, John	Ledford	Dunsmore, Thomas	Springfield
Cox, William	Rutland	Dunstedler, William S.	Edwardsville
Craig, Daniel G.	Danville	Dyer, Harry	DuQuoin
Craig, Daniel	"		
Crinigan, Barney	LaSalle		
Croker, Edward	Marquette	Eaton, A. C.	DuQuoin
Cryder, James W.	Divernon	Easton, Geo.	Willisville
Cruickshanks, Robert	Middle Grove	Eccleston, John	Streator
Cruickshanks, John	East Peoria	Eddy, Evermont	Athens
Cruickihanks, William A.	"	Eastham, G. A.	Girard
Cruthers, Zina B.	Taylorville	Edwards, George W.	Springfield
Cummings, George	Pana	Elliott, Clarence	Bryant

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Elliott, H. H	Centralia	Gerner, Fred	Danville
Edwards, Thomas	Spring Valley	Gerjetts, Harry	Athens
Ekis, Daniel B	Springfield	Geyer, J. A	Wanlock
Ekis, Henry	Ridgley	Gibson, John	Sandoval
Emans, Ransom R	Farmington	Gibson, Henry	Coal City
Ellis, Albert	Cable	Gillson, R. W	Danville
Elmore, V. M	Coffeen	Girfen, Henry	Troy
Emery, H. W	Greenville	Glacken, Hugh	Coal City
English, Thomas	Streator	Gladders, William	"
Erisman, Jacob D	Niantic	Glennon, Philip	Williamsville
Erisman, Jesse	"	Glennon, John	Riverton
Estes, W. B	Danville	Goalby, Arthur A	Percy
Evans, Albert	Glen Carbon	Goalby, B. F	"
Evans, Roderick B	Girard	Goalby, Frank H	Stookey
Evans, Thomas	Spaulding	Goddard, William H	Spillertown
Evans, C. L	Virden	Goforth, William	Pana
Evans, Price	Bissell	Gordon, E. J	Petersburg
Evans, W. E	Danville	Gordon, Alexander B	O'Fallon
Eytman, Frank	Spring Valley	Gould, George	Sato
Eydman, Henry	Coulterville	Gowin, Curtis	Green Ridge
		Gowin, Frank	"
		Grace, John T	Kewanee
Fahay, John	Decatur	Graham, L. A	Bloomington
Falkenstien, George A	Astoria	Graham, William	Springfield
Farmer, Frank	Bloomington	Graden, Orville B	Taylorville
Farley, James	Riverton	Graham, Reuben	Virden
Farwood, L. C	Springfield	Grant, Lewis	Pekin
Ferguson, John J	Spring Valley	Gray, Thomas	Springfield
Ferren, Edward	Barclay	Gray, Chas. H	"
Ferris, W. H	Marquette	Greaves, Walter	Ladd
Eillingham, J. A	Canton	Green, Joseph	Canton
Finigan, Thomas J	Springfield	Green, Daniel	Braidwood
Finnegan, William H	"	Green, Thomas	Marissa
Fischer, Phillip	Lenzburg	Green, William H	Streator
Fisher, George	Staunton	Greenhalgh, James	Hillsboro
Fisher, Patrick	Kangley	Greenhalgh, William	"
Fitzsimmons, Maurice	Peru	Greenman, Martin	Pontiac
Flesher, A	Taylorville	Greener, George	Greenview
Fletcher, Henry A	Ladd	Grierson, John	Streator
Forgerson, Andrew	Central City	Grimmett, Chas. C	Girard
Foote, Charles	Westville	Grice, Albert	Kewanee
Foote, William	"	Grieves, David	Birkner
Fox, Frank L	Assumption	Grieves, James	"
Fox, Fred	Middle Grove	Griffin, John O	Kewanee
Forister, Robert	Murphysboro	Groom, Alexander	Belleville
Forister, William	"	Groom, John, Sr	"
Fortney, John W	Kinmundy	Groom, James	"
Foster, Albert	Elmwood	Groom, William	"
Foster, A. J	Litchfield	Groom, John	"
Fox, James B	LaSalle	Groover, Harmon M	Canton
Fox, Thomas	Lincoln	Grubb, Michael	Riverton
Frain, Austin	Ridge Prairie	Geistdorfor, Fred	DeSoto
Frankland, Tim	Streator	Guy, D. F	Springfield
Freeman, M. F	Shelbyville	Gurick, Howard	Litchfield
Freeman, E. F	DuQuoin		
Frick, U. B	Lake Creek		
Friend, J. W	Collinsville	Hackett, Owen	Spaulding
Frier, Jacob	Ormsby	Haddick, William L	Sherrard
Friend, William L	Collinsville	Haensel, Edward	Lenzburg
Friesland, C. M	Salisbury	Haensel, David	"
Fritz, Gustav	Breese	Hagler, Charles	Fredonia
Fry, D. W	Clark City	Hale, William T	Troy
Furguson, S. P	Strasburg	Hale, James	Dunfermline
Fusten, D. H	Murphysboro	Haley, Edward	Kinmundy
		Hall, G. R	Colchester
		Hall, G. R	Nilwood
Gahl, Fred T	St. John	Hamilton, Chas. E	Canton
Gandy, James W	Peoria	Hamilton, James H	Sparland
Gaskins, Asa	Harrisburg	Hampton, N. R	Murphysboro
Gately, Bernard	Diamond	Hand, P. L	Peoria
Gately, James	Seatonville	Hanvey, John	Collinsville
Gasnell, George W	Herrin	Handle, Ledlie	Taylorville
Gates, Wiliam S	Kankakee	Hanenstein, J. W	Willisville
Gallagher, Peter	Clark City	Hanes, W. J	Salem
Gaughan, James	Braidwood	Hankins, John W	Sorento
Geer, Benjamin, H	Wolcott	Hanson, William	O'Fallon
Geer, U. S	Pekin	Hanvey, John J	Collinsville
Geer, Chauncy N	Walcott	Hanvey, Robert	"
Gelmour, Allan	Diamond	Hanvey, William	"

Certificates of Competency. - Continued.

Name.	Postoffice.
Happer, Frank	Edwardsville
Harding, Enos	Birkner
Harms, Heike	Petersburg
Harper, Oscar	Lebanon
Hardy, Thomas	Springfield
Hardy, Thos. W	Dawson
Harner, Elmer	Decatur
Harris, J. W	Springfield
Hartman, Frank	Murphysboro
Hartman, John F	"
Harvey, Wm. R	Wanlock
Havel, Joseph	French Village
Hawker, J. O	Pana
Haworth, William	Sandoval
Hayes, Arthur H	Danville
Hayes, James	Bloomington
Hayler, George L	Murphysboro
Head, John S	Assumption
Hendrick, C. W	O'Fallon
Hennegan, John F	Wanlock
Henry, Philip	Kewanee
Heppard, George	Belleville
Herder, Walter	Edwardsville
Herman, John	Belleville
Herring, George P	Odin
Herring, J. P	Staunton
Hershaw, A. F	Abingdon
Heskitt, John	Ridgely
Hess, Edward B	Morrisonville
Higbee, Lawrence	Wyoming
Hillard, James	St. David
Hillery, John	Dunfermline
Hill, C. C	Marissa
Hill, C. W	Pontiac
Hill, Emberson	Westville
Hilmes, Henry	Astoria
Hindman, Milo	Herrin
Hobbs, Francis E	Centralia
Hogdson, Edward	Murphysboro
Hodson, Moses	Smithboro
Hoecker, Charles	Glen Carbon
Hogan, Frank	Springfield
Holtkamp, Geo	Breese
Hooper, George	Glen Carbon
Hooper, H. H	Gillespie
Hopper, Shelby	Catlin
Horton, William T	Hornsby
Hord, Alvin	Taylorville
Hottinger, J	Freeburg
House, C. G	St. John
Howe, Chas	Streator
Huggins, William	Murphysboro
Huggins, J. A	Streator
Hughes, William A	Springfield
Hughes, John C	"
Hull, Lee	Murphysboro
Humphrey, Chas	Edinburg
Humphrey, W. F	"
Ingles, Orie W	Glen Carbon
Irwin, Byron	Pana
Irwin, John	Gillespie
Irwin, Robert K	Pontiac
Isadore, George	Roseboro
Isadore, Charles	Sparta
Jackson, William	Minonk
Jacobs, George R	Elmwood
Jacobs, James M	Moweaqua
Jacobs, William	Murphysboro
Jacobs, W., Sr	Peoria
Jeffrey, James	Marissa
Jeffrey, John	Belleville
Jenkins, John L	Danville,
Jenkins, T. E	Athens
Jenks, William	Bloomington
Johnson, John W	Birkner
Johnsohn, J. S	DuQuoin
Johnson, Robert	Pawnee
Johnaon, William H	Soperville
Johnson, William L	Spring Valley
Johnston, Joseph R	Pontiac
Johnstone, Thomas	"
Johnston, Thomas B	Freeburg
Jones, George	Belleville
Jones, Henry E	Staunton
Jones, John P	Marissa
Jones, Jonathan, Jr	"
Jones, Verning L	Barclay
Jones, Jonathan, Sr	Marissa
Jones, Joseph	Staunton
Jones, Logan	Marissa
Jones, Felix E	Barclay
Jones, Thomas	Muncie
Jones, William	Marissa
Jones, William	Braceville
Jones, John	Grape Creek
Jones, James W	Pana
Jones, John	Marissa
Jordan, Robert	Streator
Judd, Charles E	Edwardsville
Karney, Emery O	Hallidayboro
Keating, Edward F	Streator
Keating, Richard	"
Kelley, James D	Carbon Hill
Kelly, Martin	Toluca
Kelley, Robert D	Carbon Hill
Kelly, Chas	Streator
Kelly, Richard V	Cantrall
Kemper, Christian	Belleville
Kenady, Fred A	Cambridge
Kennedy, W. J	Edwardsville
Kerchner, Howard	Belleville
Kerchner, John	"
Kerns, Samuel J	Springfield
Kessick, Chas. W	Decatur
Kidd, Alonzo	Fairmount
Kilbride, T. C	Farmington
Killinger, C	Collinsville
Killinger, Harry	Germantown
Killinger, John	Collinsville
Kimball, Joel L	Hillsboro
Kimber, John	Ladd
Kingerfus, Wm	Belleville
Kinghom, John	Staunton
King, Alexander, Sr	Carterville
King, Alexander, Jr	"
King, L. B	Smithboro
Kirby, Thomas, Jr	Peru
Kirshner, Frank	Belleville
Klaus, Louis	"
Klingenfus, Edward	"
Klinkner, Frank	Colfax
Knapp, Enoch	Assumption
Krully, Andrew	Braceville
Lambert, George W	LaSalle
Lanham, John W	Danville
Larkin, James G	Athens
Laughrey, Jonathan P	Carbon Cliff
Lavallier, U. S	Chenoa
Lawson, George	Cable
Layne, J. W	DeSoto
Ledbitter, George	Sorento
Leek, Carroll	Hallidayboro
Lehman, Philip	Lebanon
Lemons, J. L	Girard
Leslie, George	Gardner
Leslie, N. B	Braidwood

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Lewis, Alvin	Catlin	Miller, James	Alma
Lindskey, Martin H	Streator	Miller, T. H	Raymond
Lindstrom, Oscar	Sherrard	Miller, William C	Rentchler
Linsky, James	Braidwood	Mills, Thomas S	Coal City
Linsky, Patrick J	"	Minzer, Robert A	Spaulding
Little, Peter	Peoria	Mize, Walter	Pana
Little, Thomas	Murphysboro	Mockbee, Luther	Niantic
Lockhart, Louis	Niantic	Morehouse, Charles L	Danville
Lockie, William	Carterville	Moffat, R. E	Cutler
Loding, Chas. A	Loding	Monaghan, James	Gillespie
Loebel, Frank	Trenton	Moor, F. J. W	Springfield
Long, Noah B	Pontiac	Morck, John	Belleville
Lucht, M. F	Mt. Olive	Morgan, John C	Springfield
Lucey, Michael	Ridgely	Morgan, William	Carbon Hill
Lundeen, Frank W	Galva	Morris, John W	Divernon
Lundy, J. P	Mt. Pulaski	Morris, George	Belleville
Lundley, Ralph	Ridge Prairie	Morris, James H	Nashville
		Morris, James	Mt. Olive
		Morris, William	"
Maasburg, H. C	Pinckneyville	Morrisey, Thomas	Lebanon
Mader, Charles H	Staunton	Morrison, Archie	Oglesby
Manley, Leo	Coffeen	Moser, Jacob W	Rentchler
Mainwaring, James	Braceville	Mulvaney, Christopher	Edwards
Mair, Max	Lebanon	Mulvany, A. T	Glenburn
Malcolm, Wm. J	Braceville	Muren, Alfred L	Belleville
Maltby, Edward	Braidwood	Muren, Joseph L	"
McAddams, John W	Percy	Murphy, Robert T	Norris
McAllister, Thomas	Hallidayboro	Murphy, Edward	Farmington
McCann, David	Lincoln	Murphy, James F	Springfield
McCartney, C. F	Alexis	Murrie, Archie	Trenton
McCauley, Aaron	Streator	Murray, Christopher C	Gillespie
McConachie, Ed	Auburn	Murray, Hugh	Nashville
McCormack, James J	Springfield	Murray, Joseph P	Rosboro
McCulley, G. L	Pawnee	Myers, Henry	Minonk
McCunsky, Tobias	Assumption	Myers, Peter W	Carlinville
McDonald, John	Springfield		
McDonald, W. H	Pana		
McDonald, William J	Percy	Nagle, Jake	Springfield
McDonald, Peter G	Carbon Hill	Neal, Ambrose	Carlinville
McFarland, F. E	Murphysboro	Neil, John H	Carterville
McGittigan, Thomas	Pana	Needham, Daniel	Breese
McGowan, Edward	Lincoln	Negley, Ollie K	Norris
McGowan, J. R	Herrins Prairie	Neilson, James W	Sparta
McIntire, A. D	Sparta	Nelson, Andrew V	Centralia
McKean, Andrew	Coal City	Nentzel, Fred H	Caseyville
McKean, John	Carbon Hill	Newal, Leroy	Sparland
McKean, Isaac	Coal City	Nevener, James	Belleville
McKearnan, J. B	Athens	Nichols, John	Athens
McKee, C. L	Lake Creek	Nickerson, James K	Colfax
McKeerman, John	Belleville	Nicol, William	Belleville
McLauchlan, F. T	Carbon Hill	Nicol, Adolph	"
McLaughlin, George	"	Norborg, Peter	Galva
McMillin, W. M	Danville	Norborn, Frank	"
McNail, Albert	Mt. Vernon	Norris, James J	Murphysboro
McPherson, James	Murphysboro	Norris, Floyd	DuQuoin
McVey, Frank W	Roanoke	Norton, William	Oglesby
McVicar, Donald	LaSalle	Norfleet, Thomas M	Springfield
Marland, James	Wenona		
Marland, William	Sparland		
Marshall, Robert	Murphysboro	O'Brien, Terry	Decatur
Martin, Benjamin	Toluca	O'Donnell, Michael	"
Martin, N. W	Marion	Ogden, William	Rentchler
Marxer, Louis J	Milstadt	Ogden, Samuel	Mascoutah
Massie, J. T	Belleville	Olinger, J	Odin
Mathis, George	DuQuoin	Olson, August	Streator
Matthews, C	Willisville	O'Neal, James	"
Maule, William	Belleville	Ople, Frederick	Mt. Olive
Maxwell, Fred	Peoria	O'Riley, Wilber	Grape Creek
Mayor, J. W	DuQuoin	Ord, S. R	Mt. Vernon
Meadows, William	Ledford	Osborne, Benjamin	Streator
Meng, Geo. W	Freeburg	Osburn, Glen L	"
Messersmith, Fred	Athens	Otto, John	Collinsville
Messenger, Joseph	Williamsville	Outhouse, John	Johnson City
Meyer, Henry	Trenton		
Michaels, Otto L	Belleville		
Miller, A. J. F	Centralia	Paddock, W. D	Pana
Miller, Hugh	Braceville	Padden, J. W	Spring Valley

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Parks, James	Streator	Reichman, George	Trenton
Parker, Joseph M	Murphysboro	Renni, Andrew	Dunfermline
Patterson R. J	"	Rennie, James	"
Patterson, W. M	St. Louis, Mo.	Renter, August	Mt. Olive
Pankey, James M	Equality	Repplinger, H	Belleville
Pearce, H. L	Cable	Reyabek, Joseph	Glen Carbon
Peecher, David	Braidwood	Rhodes, Almon R	Chenoa
Peet, Chas	Marseilles	Rice, C. D	Harrisburg
Pemberton, C. H	DuQuoin	Rice, James M	Sunfield
Perkes, Ephriam	Soperville	Rice, Moses	Murphysboro
Petrea, J. W	Vandercook	Richards, John T	Staunton
Peters, Alonzo L	Peoria	Richart, Lee	Moweaqua
Petro, Mike	Braceville	Richmond, John E	Coal City
Pendergast, John	Centralia	Riley, B. J	Cantrall
Perrins, George H	Herrin	Riley, Michael	Grape Creek
Pierson, Thomas	Harrisburg	Rippitoe, J. G	Colchester
Philips, J. M	Athens	Ritchie, John	Trenton
Pinkerton, John G	Hanna City	Roach, Samuel	Tamaroa
Piper, James	Worden	Roberts, Charles	LaSalle
Piper, Oliver G	Staunton	Roberts, John	Litchfield
Piper, Joseph	Glen Carbon	Roberts, Jonathan	Willisville
Pircher, Peter P	Sandoval	Robinson, Charles	Wenona
Pitra, Frank	Odin	Robinson, J. A	Riverton
Pitt, Joseph	Trenton	Robinson, William A	Toluca
Plenty, Geo. R	Canton	Rockey, Charles	Peoria
Plimmer, Benjamin	Streator	Rodgers, Edward	Murphysboro
Plocker, Henry	Pana	Rogers, Geo. R	Sunfield
Pointer, Edward H	Belleville	Rodgers, Finnel	Murphysboro
Powell, Edwin	Caseyville	Rode, Henry	Sherrard
Powell, F. C	Seatonville	Rohe, Herman J	Alexis
Price, Thomas	Spaulding	Rohour, Michael	Grape Creek
Price, Daniel D	Redlich	Rowland, Sidney G	Belleville
Prickett, Thomas M	Niantic	Roy, A. L	Collinsville
Pritchard, H. C	Lewiston	Royster, Richard	Peoria
Pugh, Daniel	St. John	Rude, Edmund	DeSoto
Pullen, R. H	Sorento	Russell, Zenas	Pana
Pulver, R. H	Centralia	Rutliff, Isaac	Ashland
		Ryan, Lawrence	Decatur
Qualls, Nevall	DuBois		
Quick, A. T	Sato	Sadler, George	Murphysboro
Quick, A. S. H	"	Sallade, George	Chatham
Quick, Seibert T	Pinckeyville	Sallade, J. E	"
Quigley, Henry	Hallidayboro	Sands, Robert K	Marissa
Quinn, Joseph	Springfield	Sangrelet, Charles	Litchfield
		Savage, Richard	Clarke City
		Sawyers, Joseph	Coal City
Raber, F. C	Troy	Saylor, C. F	Murphysboro
Raber, Louis	Collinsville	Schaifer, Fred	Belleville
Radford, William T	Bloomington	Scheffler, Julius	Pekin
Rafter, Michael	Marquette	Schramm, Charles	Belleville
Rafter, James P	Spring Valley	Scharinck, Frank	Edwardsville
Raisbeck, John	Braceville	Schmacker, Herman	Glen Carbon
Randle, Caleb	Belleville	Schroeder, Charles	Mt. Olive
Randle, William	Freeburg	Schroeder, Henry	"
Rasor, J. D	Staunton	Schnessel, Conrad	Breese
Rasch, Aug. F	Trenton	Schulte, Fritz	Clinton
Rawson, Grant I	Belleville	Schumacher, Chas	Marissa
Rawlings, Alex N	Cantrall	Schumm, Fred W	Gardner
Ray, Hugh	Wanlock	Scott, J. W	Colchester
Reagan, William	Mt. Olive	Scurrah, Castling R	Braceville
Reatz, Hans	Lincoln	Secor, Fred D	Odin
Reading, Curtis	Niantic	Seeman, John C	Cantrall
Reed, John	Herrin	Seeman, George A	"
Reed, W. J	Danville	Seidel, Fred	Kinmundy
Reetz, Herman	Lincoln	Seiler, William	Ormsby
Reeger, John C	Pinckneyville	Sells, Chas. B	Colfax
Reeise, William M	Roanoke	Seymour, John	"
Reid, Robert	Moweaqua	Shafer, James M	Girard
Reid, Archibald	Springfield	Sharp, John H	Spring Valley
Reid, Andrew B	DuQuoin	Sheehan, Peter	Athens
Reiddlinger, Peter M	Peoria	Shroyer, A. D	Lincoln
Reidberger, Wm. J	DuBois	Shinn, Charles	Springfield
Reilly, Henry	Toluca	Shriver, P. A	Kinmundy
Reimann, John	Belleville	Siddall, John	Belleville
Remelius, Jacob	O'Fallon	Siddall, Levi	"
Rennard, Jas. Ed	Grape Creek	Sinclair, Guy S	Glen Carbon

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Silvis, Thomas S	Carbon Cliff	Vallow, P. Oliver	Kinmundy
Sizemore, William I	Carterville	Vaughn, John	McLean
Slocum, Clarence	Gilchrist	Valentine, Charles	Cable
Smith, Edward J	Collinsville	Vaughn, Wm. M	Edwards
Smith, George W	Virginia	Vandveer, Perry E	Taylorville
Smith, George W	St. Louis, Mo	Vernon, James	LaSalle
Smith, S	Marseilles		
Smith, Robert	Collinsville		
Smith, Firth	Murphysboro		
Smithmeyer, Anton	Lincoln		
Smyth, C. M	Danville	Waggoner William F	Raymond
Sneddon, John	O'Fallon	Wagmire, James	Assumption
Sneddon, Richard	Catlin	Waldrom, Thomas	Fredonia
Sneyd, James	Westville	Walker, John H	Mt. Olive
Sowerby, Miles	Willisville	Walker, Joshua	"
Sparks, J. L	Mt. Vernon	Wallace, Henry G	East Peoria
Sparling, Charles	Seatonville	Waters, Robt	Springfield
Sparling, Henry	"	Wallford, Noah	Hillsboro
Spiller, Elijah	Hallidayboro	Wallock, Charles	Braceville
Spence, Elmer	Farmington	Walsh, James D	Auburn
Sprout, J. W	Pontiac	Walton, A. F	LaSalle
Stanfel, Martin	Toluca	Walton, Patrick	Bureau Junction
Stanford, J. W	Pana	Walton, Joseph	St. David
Stanton, William E	Colchester	Wantling, T. J	Pottstown
Stedman, Edgar	Missionfield	Wandless, W. S	Collinsville
Stedman, Robert, Sr	Danville	Warner, Richard	Troy
Steel, E. H	Salem	Wassel, Anton	Braceville
Steinheimer, Theodore	Lenzburg	Watson, Frank	Springfield
Stephen, C. H	Spring Valley	Wattawa, Joseph	Belleville
Steward, L. A	Mt. Vernon	Watts, T. J	Elmwood
Stewart, James C	Carbon Hill	Weaver, Elmer	Dunfermline
Stewart, Peter	Murphysboro	Welch, Benjamin	Harrisburg
Stoker, A. E	Buffalo	Wente, Frank	Nashville
Stone, Frank	Lebanon	West, W. H	Murphysboro
Stone, Nathan	Carterville	Wesner, Ephraim	Streator
Storm, Edwin	Worden	Westwood, Albert	Belleville
Stout, F. M	Springfield	Westwood, Edward	Birkner
Stout, W. E	Rutland	Wheatley, John W	Coal City
Stowell, G. W	Bloomington	White, Henry	Riverton
Streik, William	Belleville	White, Perry J	Springfield
Strait, John D	Pinckneyville	White, Robert	Lincoln
Strivey, William	Taylorville	Wickersham, J. R	Lake Creek
Stroud, William	Worden	Wilkin, W. P	Springfield
Struck, Carl	Springfield	Williams, Huston	Spaulding
Struse, Henry H	Athens	Williams, John	Spring Valley
Stuthard, Geo. B	Westville	Williams, Thomas E	St. David
Stuart, John	Ladd	Williams, Watson	Virden
Swartz, Fred	Toluca	Williams, William H	Sherrard
		Williams, Wm. Hampton	Murphysboro
		Williamson, Henry	Coal City
		Williamson, William	"
Taylor, James	Edwards	Wills, Henry E	Harrisburg
Taylor, Edwin	Trenton	Wilson, David	Birkner
Taylor, Mack	Westville	Wilson, William H	Middle Grove
Taylor, William W	Tamoroa	Wilson, James	Springfield
Taylor, Simeon	Bissell	Windsor, Samuel	Norris
Tefft, Ernest	Mt. Olive	Wines, E. R	Springfield
Temple, James C	Springfield	Wohlers, Henry	Mt. Olive
Terry, W. F	Litchfield	Wood, Daniel A	Colfax
Terry, Geo. L	Raymond	Woodward, J. R	Streator
Thexton, Henry	Rushville	Woolbright, D. A	Centralia
Thomas, Fred	Rutland	Woodworth, Peter	Pekin
Thomas, Charles	DeSoto	Worms, Joseph	Birkner
Thompson, Wm. H	Himrod	Wornack, Chas. A	Glen Carbon
Thompson, Fred	Westville	Wright, William M	Pana
Thompson, J. H	Marion	Wrigley, James	Collinsville
Tibballs, E. A	"		
Timmons, Irvin F	Wyoming		
Tobin, Robert	Springfield		
Travis, Alonzo	Pana		
Travis, William	Birkner	Yates, John	DeSoto
Tregoning, Charles	Carterville	Yates, William	Coal City
Tregoning, George	"	Yebling, Fred H	DuQuoin
Tumblenson, Sinclair	Centralia	Young, J. K	Girard
Turner, Geo. W	Lewiston	Young, James G	Gardner
Twomby, Edward	Coal Valley	Young, Robert	LaSalle

Hoisting Engineers, Certificates of Competency—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Young, A. O. K	Girard	Zeigler, John	Iles Junction
Young, Peter J	Springfield	Zink, Louis	Belleville
Young W. L	DuQuoin	Zink, Peter A	"
Youngquist, Frank	Sherrard	Zuriker, Lorens	Cable

HOISTING ENGINEERS HOLDING CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.
Ackerman, Jacob	Belleville	Fischer, George	Staunton
Allen, William H	Collinsville	Fisher, Patrick	Kangley
Anthony, John C	Belleville		
		Gaudy, James W	Peoria
Baiwair, John	Braidwood	Glasford, Oliver	Orchard Mines
Banker, Henry	Ridge Prairie	Glenam, Philip	Williamsville
Bath, Ameston	Cuba	Graham, J. A	Nilwood
Beeby, William	Springfield	Graham, Reuben	Virden
Bell, George E	Canton	Grattendick, Fred	Okawville
Benvennto, Charles	Toluca	Greaves, Allen	Nashville
Birkley, N. T	Cuba	Grey, David F	Springfield
Blue, Jesse	Norris	Grierson, John	Streator
Bonick, Andrew	Gilchrist	Grimshaw, Joseph	LaSalle
Bowman, George W	Yates City	Groom, John	Belleville
Brown, G. A	Iles Junction		
Brubeck, J. W	Pawnee		
Brumann, Albert	Springfield	Haas, Jacob	Millstadt
		Hackett, Owen	Spaulding
		Hagler, Charles	Fredonia
Campbell, Albert	Pottstown	Hall, George R	Nilwood
Campbell, James	Coal City	Hanson, William	O'Fallon
Carlson, Alexander	Galva	Harms, Heike	Petersburg
Carrington, Eugene	Moweaqua	Harris, J. T	Tamaroa
Carter, Albert J	Pinckneyville	Hayes, John	Riverton
Chitwood, William	Glenburn	Heaver, F	Sandoval
Clark, Charles M	DuQuoin	Hickox, Lee	Springfield
Cline, John	LaSalle	Howe, Charles	Streator
Collins, John	Birkner		
Cook, W. D	Westville		
Cotton, George	Hallidayboro	Ichman, Frank	Spring Valley
Cox, John	Ledford	Isadore, Charles	Sparta
Craig, Daniel	Danville	Isadore, George	"
Crawson, William	O'Fallon		
Crinigan, Barney	LaSalle		
Crocker, Edward	Marquette	Jackson, William	Minonk
Cruickshanks, Wm. A	Middle Grove	Jacobs, John P	Orchard Mines
Cummings, Robert H. L	Sparland	Jacobs, William	Murphysboro
Daley, Thomas	Diamond	Jamison, John	Petersburg
Dauck, John	LaSalle	Jeffrey, William	Gilchrist
Davenport, Thomas	New Castle	Johnson, Edgar W	Marissa
Davis, George W	Hanna City	Jones, George W	Riverton
Davis, Thomas	Swanwick	Jones, T. A	Muncie
Davis, William H	Streator	Judd, Thomas	Cuba
Davison, J. J	St. John		
Dawson, John	Streator		
Dawson, Thomas	"	Kearney, E	Hallidayboro
Dawson, V. C	Spring Valley	Kelley, Martin	Toluca
DeBacher, Thomas	Elmwood	Kemper, Christian	Belleville
DeHass, B. L	Tallula	Kennedy, W. J	Edwardsville
Dietrich, Philip	Freeburg	King, Alexander, Jr	Carterville
Dillon, John	Auburn	King, John	"
Doe, R. P	Glen Carbon	Kiroy, Thos., Jr	Peru
Dodd, Samuel	Pottstown	Klaug, John	Galva
		Klaus, Louis	Belleville
Ebel, August	Belleville		
Edwards, George W	Springfield	Langran, James	Fairbury
Egerton, J. O	Colchester	Larson, Charles L	Galva
Ekis, Daniel B	Spridgfield	Lathan, William H	Hallidayboro
Essex, George M	Soperville	Lewes, Jacob H	Pottstown
Evans, Albert	Glen Carbon	Lewis, William	Wanlock
Everett, Charles	Rutland	Lippert, Adolph	Kewanee

Hoisting Engineers Holding Certificates of Service—Concluded.

Name.	Postoffice.
Lloyd, Benjamin	Rentchler
Love, William	Virden
Lumdberg, Eric	Galva
Marshall, Robert	Yates City
Matthews, George	DuQuoin
Mattern, Daniel	Spring Valley
Matthews, C	Marion
Matthews, William G	Bartonville
Maurer, Edward	Spring Valley
Maxwell, Fred	Peoria
McCalster, Thomas	Muddy Valley
McDodald, William H	Pana
McLean, John	Pleasant Plains
McMillen, W. M	Danville
McWerthy, G. A	Smithboro
Melvin, T. M	Tamaroa
Milem, John	Spring Valley
Miller, Wm	Streator
Morrison, Archie	Oglesby
Mumford, E. A	Kewanee
Murray, James H	Galva
Neal, Ambrose	Barclay
Neil, John H	Bunker Hill
Neilson, J. W	Sparta
Nicholson, George A	Cuba
Noid, John E	Galva
Ogden, David	Rentchler
Ogden, Samuel	Mascoutah
Olson, Aug	Kangley
Osborne, Benjamin	Streator
Ottinger, William	Catlin
Pankey, John M	Equality
Peet, Charles	Marseilles
Pendergast, James	Soperville
Phillips, William	Hallidayboro
Picton, Joseph	Farmington
Picton, Thomas H	"
Piper, Oliver	Worden
Prichard, H. C	Lewistown
Prichett, T. M	Niantic
Qualls, Nevel	Dubois
Quick, A. T	Sato
Raber, Louis	Caseyville
Radford, James W	Cuba
Radford, W. T	Bloomington
Rahaur, Michael	Pawnee
Redyard, John	Odin
Reeise, William M	Roanoke
Reid, A. B., Jr	DuQuoin
Rennard, James E	Westville
Reum, Charles H	Sorento
Rice, B. F	Harrisburg
Richmond, Edward B	Winchester
Rieger, John C	Pinckneyville
Riley, Michael	Westville
Roach, Samuel	Tamaroa
Rogers, George	Sunfield
Rogers, Henry	Braidwood
Rude, Edmond	DeSoto
Sallade, George A	Chatham
Sanson, T. J	Carterville
Sawyers, Joseph	Coal City
Schmacher, Charles	Marissa
Schramm, Charles	Belleville
Seeback, Joseph	Spring Valley
Sexton, LaFayette	Dawson
Seymour, A. J	Fredonia
Sheppard, W. C	Marquette
Shurm, Fred	Gardner
Smith, Geo. W	Virginia
Sorrells, D. H	Ashland
Sowarby, Miles	Willsville
Stoker, Edward	Bartonville
Strick, William	Belleville
Stroud, William	Worden
Struck, Carl	Springfield
Stuart, John	Oglesby
Tanner, Henry	Pinckneyville
Taylor, Benjamin	Bartonville
Taylor, Willard W	Tamaroa
Tefft, Ernst	Girard
Telfer, John K	Morris
Thome, Martin	Martinville
Wallace, Harry G	East Peoria
Warner, Andrew M	Wenona
Waymire, James	Assumption
Wertwood, Edward	Birkner
Wheatley, Rolley	DuQuoin
White, Henry	Riverton
Williams, Husten	Spaulding
Williams, Stephen P	Wyoming
Williams, Watson	Barclay
Willis, Harry	New Castle
Wood, Daniel A	Colfax
Woolbright, D. A	Centralia
Wonnes, Joseph	Birkner
Wormack, Charles A	Glen Carbon
Zeigler, John	Iles Junction

MINE EXAMINERS HOLDING CERTIFICATES OF COMPETENCY.

NOTE.—The revised mining law of 1899 changed the title or name "Fire Boss" to that of "Mine Examiner," and provided that those holding certificates as Fire Boss could exchange the same for that of Mine Examiner.

The names followed by the abbreviation "ex." have made such exchange.

Name.	Postoffice.	Name.	Postoffice.
Adams, William M.	Centralia	Case, William	Diamond
Adrien, Charles H	Hanna City	Casey, James	Selbytown
Alexander, John	Cable	Casey, John	Williamsville
Amberger, Joseph	Chatham	Castillo, Henry	Pana
Andree, John W	Greenview	Chadderton, John	Lenz Station
Anderson, James	Marion	Champley, James	Wenona
Andrew, Thomas	Oglesby	Clark, Joseph B	Hornsby
Andrew, Thomas	Kangley	Craine, J. E., Jr	Murphysboro
Archibald, George	Green Ridge	Cunningham, David	Carlinville
Armstrong, George	Riverton	Champley, James, ex	Wenona
Argyle, Joseph	Coal City	Condon, Charles H	Hanna City
Arnold, Stephen	Oglesby	Connolly, Terrance J	Assumption
Atkinson, John G	Cable	Cook, William	DuQuoin
Avery, William	Belleville	Cook, Elijah	Wanlock
		Cook, Thomas	Belleville
		Cooper, Moses	Athens
Back, Robert	Farmington	Costello, Henry, ex	Pana
Baker, Sherrad	Gillespie	Cowley, William	DuQuoin
Baker, Robert	Auburn	Crichton, Dawson	Taylorville
Baker, Samuel G	"	Connaughton, Edward	Belleville
Barkley, George	Greenview	Cox, Will M	Edwardsville
Barlow, Harry	Lake Creek		
Baugh, William	Dawson		
Beecham, William	Cardiff	Dacy, William	Springfield
Bell, William	Streator	Dalzell, Andrew	Lanton
Bettison, William	Canton	Damrath, Frederick	Virden
Biehl, Charles	Belleville	Daniel, John	Belleville
Blair, Herbert M	Centralia	David, Emmer E	Astoria
Bluefield, Charles	Coal City	Davis, George	Springfield
Blakemore, George	Streator	Davies, Thomas	Nilwood
Blenkinsopp, Thomas, Jr	Cable	Davis, William	Streator
Blue, J. W	Grape Creek	Davis, William H	"
Booth, Enoch	Springfield	Davis, Jackson	Athens
Borg, Frank	Mt. Olive	Davis, William	Streator
Bowen, Gwilym	Herrin	Davis, John	Taylorville
Brennan, Patrick	Toluca	Davison, William D	Sandoval
Brennan, John E	Virden	Day, Louis B	Taylorville
Brown, Mathew	Springfield	Dawkins, William E	Rentchler
Brown, Archibald	Streator	Dodge, H. N	East Peoria
Brooks, Peter	Taylorville	Doonier, P. J	Westville
Brynn, William	Virden	Dowell, William C	Centralia
Bullough, James	Girard		
Bundy, John	Streator		
Bumgartner, Andrew J	Barclay	Edmunds, Morgan	Mt. Olive
Burns, James, Sr	Springfield	English, Thomas	Streator
Campbell, Robert	Witt	Farmer, James	Marissa
Campbell, James	Assumption	Farrand, Walter	Barclay
Cappin, Aaron	Wenona	Farrell, John H	Springfield
Carr, J. W	Odin	Fiellingham, John E	Peoria

Certificates of Competency—Continued.

Name.	Postoffice.
Felton, Harry	Petersburg
Ford, John	Tilden
Fox, John	Elmwood
[redacted]	
Galbraith, Patrick	Coal City
Galvin, Martin	Assumption
Galligan, Michael	Herrin
Gastenecker, William	Troy
Ghebandy, Honore	Westville
Glover, Richard	Belleville
Gloss, Michael	Gardner
Goehe, William	Staunton
Grabsuck, Emile	Gardner
Graham, L. A	Bloomington
Gray, Henry	Athens
Gray, William	Streator
Green, William H	Belleville
Green, J. W	Springfield
Greenan, John	Coal City
Gregor, Charles	Springfield
Griffin, John B	Niantic
Griffith, Peter	Paisley
Griffiths, Evan	St. David
Griffith, David	Centralia
Groom, Isaac	Belleville
Guy, John	Streator
Haddow, Thomas	Pana
Hardman, J. J	Auburn
Harrison, James	Athens
Harrison, John	Odin
Haun, George	Litchfield
Hamilton, David	Assumption
Hampton, Harry	O'Fallon
Haisfield, Aaron	Oglesby
Hart, Chas. J	Virden
Hawkins, Sidney	Belleville
Hayden, G. S	Wenona
Hanson, Charles	Danville
Hardin, Hiram H	Divernon
Harvey, Frank	Springfield
Haskins, Joseph	Catlin
Haywood, Joseph	Centralia
Hemmersbach, Peter	Farmington
Henley, J. H	Odin
Henderson, Alexander	Springfield
Herbert, Albert W	Athens
Hines, William	Rutland
Hodder, Jacob	Norris
Hooper, Geo	Winchester
Houston, Robt. J	Lebanon
Holden, Andrew	Coal City
Hopkins, Reese	Litchfield
Howells, George	Staunton
Hoye, William	Braidwood
Hughes, John	Decatur
Hutchinson, Ralph	Barclay
James, Jonah	Grape Creek
Jasper, John	DuQuoin
Jenkins, Richard	LaSalle
Jenkins, T. C	Murphysboro
Jennings, William	Athens
Jeten, T. F	Roanoke
Johnson, David	Oglesby
Johnston, Samuel	"
Johnson, James N	Carterville
Jones, Ben. J., ex	Coffeen
Jones, Thomas	Lebanon
Jones, John	Springfield
Jones, Willis	Herrin
Jones, Benjamin J	Coffeen
Jones, Morgan	Litchfield
Jones, Robt. R	Oglesby
Jones, Wm. Hy	Catlin
Jordon, Robert	Streator
Kaney, John	Centralia
Kaveny, John R	Troy
Kenney, William	Sparland
Kepper, William	Peru
Killingworth, Charles H	Pinckneyville
Kloever, Matthew	Pana
Knapp, Charles	Seatonville
Knies, Harry	Breese
Koehler, Charles	Lincoln
Kohers, Adam	Breese
Kolkmann, Gustav	Marissa
Kortkamp, Karl	Hillsboro
Kortkamp, Louis	"
Kramer, Frederick	Centralia
Lamar, Frank	Worden
Lamb, George	Springfield
Lasley, William	Hallidayboro
Lawson, John	Cable
Lawson, Thomas	Lake Creek
Lettsom, William	Seneca
Linton, Quincy M	Gillespie
Lehwald, Herman	Springfield
Lloyd, Rowland R	Barclay
Longshore, Harry A	DuQuoin
Lockhart, James M	Sunfield
Lumaghi, Louis F	Collinsville
Lyons, Mark	Lincoln
Manees, Charles	Centralia
Mann, Jacob	Mascoutah
Martin, Samuel	Glen Carbon
Martin, William	LaSalle
Maggs, Jacob	Danville
Massie, J. G	Belleville
Mayne, Thomas	Glen Carbon
Meyer, Louis	Breese
Millett, Thomas	Troy
Mitchell, Elijah R	Farmington
Mitchinson, John	Hanna City
Middleton, J. L	Salem
Miller, Alexander	Ridge Prairie
Miller, G. W	Pawnee
Monghan, T. P	Springfield
Monson, Charles	"
Moran, Thomas	Assumption
Morgan, Daniel S	Springfield
Mornk'o, Peter	Glen Carbon
Mountjoy, John H	Clark City
Morris, James P	Centralia
Morgan, E. T	Georgetown
Morgan, Joseph	Streator
Morris, John H	Wenona
Moss, Thomas	Staunton
Muentrich, J	"
Muir, Andrew	Springfield
Murphy, John	Braidwood
McCall, Maurice R	Odin
McCranor, James	Girard
McCrindle, David	Oglesby
McDonald, William	Braidwood
McDill, James	Assumption
McEwen, Charles	Carbon Hill
McKillop, Donald	"
McGarrity, John	Springfield
McKenzie, Alex. C	Canton
McLauchlin, John P	Auburn
McBride, George	Mascoutah
McFall, John	Springfield
McLaughlin, William	DuQuoin
McLean, William F	Iles Junction
Nation, Henry C	Glen Carbon
Neal, Edward O	Wolcott
Nelmes, William	St. David
Nesbit, Charles L	Freeburg

Certificates of Competency.—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Neylon, Dennis	Selbytown	Secor, T. D	Odin
Nichols, Eli W	Dunfermline	Shaw, Henry	Spring Valley
Nixon, Robert	Streator	Siddall, Edward	Streator
Nordner, C. K	Athens	Siddall, John W	"
Noll, Charles	Springfield	Siddall, James	"
Noll, Peter	Belleville	Smith, Geo. A	Sandoval
Nordman, Ferdinand	Breese	Smith, Henry	Smithton
		Smith, William H	Taylorville
		Smith, John P	Glen Carbon
O'Connor, Patrick F	Paisley	Smith, James	Streator
Olroyd, Peter W	Springfield	Smith, Benjamin	Canton
Opp, Sherman W	Canton	Smith, Harry	Troy
Owens, Evan	Auburn	Smith, John H	Herrin
		Smith, William	Belleville
		Sneddon, Michael	Chatham
Payne, Henry	Litchfield	Spires, Alfred	Braceville
Payne, Emanuel	"	Steel, Daniel	Collinsville
Peart, John	Braidwood	Steel, Neal	Centralia
Phelps, George	Herrin	Stearns, James	Hallidayboro
Phillips, Benjamin	Kangley	Stonburner, L. L	Sorento
Pick, Edward	Central City	Slow, Michael	Braceville
Picton, John W	Farmington	Steiber, Anton	Glen Carbon
Pierard, Edward	Coal City	Steines, Benjamin	Willisville
Preval, Fred	Springfield	Stevens, Walter	Streator
Poole, Robert H	Edinburg	Stevens, John	Cuba
Potter, Edward	Belleville	Stewart, John T	Coulterville
Price, John B	Marissa	Stirrat, James	Canton
Prince, Thomas	Mt. Olive		
Prudent, Edward	Centralia		
		Thaine, James	Litchfield
		Thom, John	Coal City
Quinn, Bernard	Bloomington	Thomas, John R	Spring Valley
		Thorunt, Joseph, Sr	Trenton
		Thursh, David Z	Hanna City
Raab, Rudolph	Carlinville	Thursh, David S	"
Race, George	Springfield	Thomas, David	Canton
Rae, Robert	Carbon Hill	Titler, William L	O'Fallon
Rankin, Thomas A	Westville	Tompkins, Frank	St. David
Ready, Thos	Springfield		
Rehg, Charles	Belleville		
Rennison, Henry	St. Johns	Valew, Edward	Glen Carbon
Reynolds, John	Streator	Vallow, Ellis	Kinmundy
Reynolds, Andrew	Danville	Vit, Charles	Litchfield
Reynolds, David	Muncie		
Rhodes, D. R	Pana		
Rhodes, J. L	Westville	Ward, John G	Streator
Ritson, Hugh	Farmington	Ward, Robert, ex	"
Rider, James H	Pontiac	Wendler, Adelbert	Glen Carbon
Richard, James	Belleville	Whalen, Michael	Greenridge
Roberts, Evan	Danville	Whitecamper, Louis	Lincoln
Robinson, Thomas J	Greenview	Whitehead, Edward	Farmington
Robbins, Aaron	Mt. Pulaski	Wilkinson, George R	Bissell
Rolls, James	Pana	Wetherill, James	Ladd
Rowlands, Ivor	Virden	Willard, Charles S	Glen Carbon
		Williams, T. J	Cardiff
		Williams, William H	Edinburg
Savage, Mike	Lincoln	Williamson, Jacob H	Bissell
Scattergood, John	Barclay	Williamson, Jacob	"
Schmidt, Conrad	Lincoln	Wilson, Henry, ex	Pana
Schrayer, Moses	Springfield	Williams, William E	Streator
Scott, Wm. J	"	Wilson, Henry	Pana
Scoby, Ray	Gilchrist	Winterbottom, John	Sparta
Sebastain, Charles	Freeburg	Worthington, Hillard	Hallidayboro
Seidl, Frank J	Sandoval	Wright, David	Carlinville

MINE EXAMINERS HOLDING CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.
Arnold, Stephen	Kangley	Kopps, August	Girard
		Kortcamp, Carl	Hillsboro
		Kortcamp, Lewis	"
Bagshaw, George W	Virden		
Blakeman, George	Streator		
Borg, Frank	Mt. Olive	Lewis, Edward	Ladd
Boulton, Henry	Coal City		
Bough, William	Dawson		
Brooks, Peter	Taylorville	Moffet, Edward A	Bartonville
Brown, John	Streator	Montgomery, John H	Gardner
		Mooney, Arthur	Kangley
Caveny, Edward	Pana	McDonald, M. E	LaSalle
		Ross, S. H	Girard
Davis, Thomas	Nilwood		
		Schmidt, Ernest	Mt. Olive
Franzen, Mat	Girard	Schultz, John	Diamond
		Shaw, Francis M	Hallidayboro
		Shopman, John	Mt. Olive
Gray, William	Streator	Siebenhawer, Wm	LaSalle
Griffin, John	Niantic	Solufskie, Hermann	Decatur
		Stewart, Samuel	Coal City
Hall, John Herbert	Minonk		
Hoesfield, Aaron	Oglesby	Taylor, Samuel	O'Fallon
Hornanor, Paul	Lincoln	Thomas, David	Canton
Hughes, John	Decatur		
Humphreys, William	Clarke City		
		Ward, Robert	Streator
		Wilson, Archie	Clarke City
Jenkins, Rutland	LaSalle	Wilson, John	Gardner
		Wood, Henry	Streator
Kneper, David	Girard		

ILLINOIS AGREEMENT

BETWEEN THE

Illinois Coal Operators' Association and United Mine Workers of Illinois

AS TO

MINING PRICES AND CONDITIONS

For the Scale Year Ending March 31, 1903; Adopted at Peoria March 13, 1902.

WHEREAS, A contract between the operators of the Competitive Coal Fields of Pennsylvania, Ohio, Indiana and Illinois, and the United Mine Workers of America has been entered into at the City of Indianapolis, Ind., Feb. 8, 1902, by which the present scale of prices at the basic points as fixed by the agreement made in Indianapolis, Ind., Feb. 2, 1900, is continued in force and effect for one year from April 1, 1902, to March 31, 1903, inclusive; and,

WHEREAS, This contract fixes the pick mining price of bituminous mine run coal at Danville at 49 cents per ton of 2,000 pounds; therefore be it

Resolved, That the prices for pick mined coal throughout the State for one year, beginning April 1, 1902, shall be as follows:

FIRST DISTRICT.

Streator, Cardiff, Clarke City and associated mines, including Toluca thick vein	58c
Third vein and associated mines, including 24 inches of brushing	76c
Wilmington and associated mines, including Cardiff long wall and Bloomington thin vein, including brushing	81c
Bloomington thick vein	71c
Pontiac, including 24 inches of brushing	81c
Pontiac top vein	58c
Marseilles	$1.09
(Rate at Marseilles to continue until Sept. 1, 1902, at which time the conditions are to be investigated by President Russell and Commissioner Justi, and if conditions are changed as now contemplated an equitable adjustment shall be made.)	
Morris and Seneca (referred to a committee composed of Commissioner Justi and two operators and Presdent Russell and two miners to fix mining prices, which shall become a part of this contract; the same to be considered before May 1, 1902.)	
Clarke City lower seam, brushing in coal	66c

SECOND DISTRICT.

Danville, Westville, Grape creek and associated mines in Vermilion county	49c

THIRD DISTRICT.

Springfield and associated mines	49.7c
Lincoln and Niantic	53c
Colfax	53c

EOURTH DISTRICT.

Mines on C. & A. south of Springfield, to and including Carlinville; including Taylorville, Pana, Litchfield, Hillsboro, Witt (Paisley), Divernon and Pawnee	49c

Assumption long-wall, under present regulations..... 65½c
Moweaqua room and pillar.... 53c
Mount Pulaski, room and pillar 66c
Decatur, present conditions.... 64c

FIFTH DISTRICT.

Glen Carbon, Belleville and associated mines, to and including Pinckneyville, Willisville and Nashville..... 49c
Coal five feet and under..... 54c

SIXTH DISTRICT.

DuQuoin, Odin, Sandoval, Centralia and associated mines.. 45c
Salem and Kinmundy..... 50c

SEVENTH DISTRICT.

Mount Vernon..... 50c
Jackson county..... 45c
(All coal five feet and under, 5c extra per ton; this not to apply to lower bench, nor rolls or horsebacks.)
Lower bench, Jackson county, for shipping mines, miners to carry 14 inches brushing.. 58c
Saline county..... 45c
Williamson county..... 42c
Gallatin county (price to be determined by Thos. Jeremiah and Commissioner Justi and become a part of this contract.)

EIGHTH DISTRICT.

Fulton and Peoria counties, thin or lower vein (Third vein conditions) 76c
Fulton and Peoria counties, No. 5 vein..... 56c
Astoria No. 5 vein (Fulton and Peoria counties conditions).. 56c
Pekin (price of 60c per ton continued under provisions similar to those in State agreement for year ending April 1, 1902, viz.: Price of 60c per ton with Fulton and Peoria counties conditions to be in force for 90 days from April 1, 1902, during which time a record is to be kept to determine cost of removing dirt, etc. Should this rate be found to work a hardship it shall be readjusted; if it transpires that it is equitable it shall continue during the life of this agreement. It is understood that the Pekin operators and delegates will determine by what method the re-adjustment shall be considered.)
Fulton and Peoria counties, No. 6 vein (referred to a committee composed of Commissioner Justi and two operators and President Russell and two miners to fix a mining price which shall become a part of this contract; the present rate of 59c per ton to continue in force pending adjustment by said committee. The same to be considered before May 1, 1902.)
Gilchrist, Wanlock, Cable, Sherrard and Silvis mines, 60c per ton with last year's conditions. In case of deficient work, where miner and mine manager cannot agree as to compensation, the mine committee shall be called in; and if they cannot agree the dispute shall be carried up under the 13th clause of the present scale.
Kewanee and Etherley..... 65c
Pottstown No. 1 seam, scale to be the same as Gilchrist and Wanlock, except in the brushing of the top, that shall be settled by the sub-district.

NINTH DISTRICT.

Mount Olive, Staunton, Gillespie, Clyde, Sorento and Coffeen and mines on the Vandalia line as far east as and including Smithboro, and on the B. & O. S. W. as far east as Breese..... 49c
Coal five feet and under..... 54c

1. The Indianapolis convention having adopted the mining and underground day labor scale in effect April 1, 1900, as the scale for the year beginning April 1, 1902, no changes or conditions shall be imposed in the Illinois scale for the coming year that increase the cost of production of coal in any district in the State, except as may be provided.

2. No scale of wages shall be made by the United Mine Workers for mine manager, mine manager's assistant, top foreman, company weighman, boss drivers, night boss, head machinist, head boilermaker, head car-

penter, night watchmen, hoisting engineers. It being understood that "assistant" shall apply to such as are authorized to act in that capacity only. The authority to hire and discharge shall be vested in the mine manager, top foreman and boss driver. It is further understood and agreed that the night watchman shall be exempt when employed in that capacity only.

3. Any operator paying the scale rate of mining and day labor under this agreement shall at all times be at liberty to load any railroad cars whatever, regardless of their ownership, with coal, and sell and deliver such coal in any market and to any person, firm or corporation that he may desire.

4. The scale of prices for mining per ton of 2,000 pounds run-of-mine coal herein provided for, is understood in every case to be for coal free from slate, bone and other impurities, loaded in cars, at the face, weighed before screening; and that the practice of pushing coal by the miners shall be prohibited.

5. (a) Whether the coal is shot after being under-cut or sheared by pick or machine, or shot without undercutting or shearing, the miners must drill and blast the coal in accordance with the State mining law of Illinois, in order to protect the roof and timbers in the interest of general safety. If it can be shown that any miner persistently violates the letter or spirit of this clause, he shall be discharged.

(b) The system of paying for coal before screening was intended to obviate the many contentions incident to the use of screens, and was not intended to encourage unworkmanlike methods of mining and blasting coal, or to decrease the proportion of screened lump, and the operators are hereby guaranteed the hearty support and coöperation of the United Mine Workers of America in disciplining any miner who from ignorance or carelessness or other cause fails to properly mine, shoot and load his coal.

6th. In case slate, bone, clay, sulphur or other impurities are sent up with the coal by the miner it shall be the duty of whomever the company shall designate as inspector to report the same, with the estimated weight thereof, and the miner or miners so offending shall have such weight deducted from the established weight of the car, and for the first offense in any given month shall be fined 50 cents; for the second offense in the same month he or they shall at the option of the operator be fined $2.00 or suspended for two working days; and for the third or any subsequent offense in the same month, or in malicious or aggravated cases for the first or any subsequent offense, the operator may indefinitely suspend or discharge.

The company weighman shall post in a conspicuous place at the pit-head the names of all miners dealt with hereunder.

The inspector designated by the operator shall be a member of the U. M. W. of A., but in the discharge of the duties herein specified shall not be subject to the jurisdiction of the local union or president or pit committee, and against any miner or committeeman seeking in any way to embarrass the inspector in or because of the discharge of such duties the provisions of the miners' state constitution shall be invoked and in addition he shall at the option of the operator be suspended for two working days.

In case it shall be alleged by either the local representatives of the miners or by the operator that the inspector is not properly performing his duties hereunder, it shall be so reported to the miners' sub-district president, who shall within 48 hours after the receipt of notification take it up with the superintendent of the company for adjudication; and if it shall be found that the inspector is not faithfully performing such duties he shall be discharged or transferred to other duties, as the operator may elect.

The proceeds of all fines hereunder shall be paid to the miners' sub-district secretary-treasurer, and under no circumstances shall any such fine be remitted or refunded.

7th. The miners of the State of Illinois are to be paid twice a month, the dates of pay to be determined locally, but in no event shall more than one-half month's pay be retained by the operator. When any number of men at any mine so demand, statements will be issued to all employès not less than 24 hours prior

to pay day. No commissions will be charged for money advanced between pay days, but any advances between pay days shall be at the option of the operator.

8th. The price for powder per keg shall be $1.75—the miners agree to purchase their powder from the operators, provided it is furnished of standard grade and quality; that to be determined by the operators and expert miners jointly where there is difference.

9th. The price for blacksmithing for pick mining shall be six-tenths of a cent per ton for room and pillar work and 12½ cents per pay per man, or 25 cents per month for long wall for pick and drill sharpening.

10th. It is understood that there is no agreement as to the price of oil.

11th. The inside day wage scale authorized by the present agreements, *i. e.*, the Columbus scale of 1898, plus an advance of 20 per cent, shall be the scale under this agreement; but in no case shall less than $2.10 be paid for drivers.

12th. The above scale of mining prices is based upon an eight-hour work day, and it is definitely understood that this shall mean eight hours' work at the face, exclusive of noon time, six days a week, or 48 hours in the week, provided the operator desires the mine to work, and no local ruling shall in any way affect this agreement or impose conditions affecting the same.

Any class of day labor may be paid at the option of the operator for the number of hours and fractions thereof actually worked, at an hour rate based on one-eighth of the scale rate per day. Provided, however, that when the men go into the mine in the morning they shall be entitled to two hours' pay whether the mine hoists coal two hours or not, except in the event that they voluntarily leave their work during this time without the consent of the operator, they shall forfeit such two hours' pay. Provided, further, that overtime by day laborers when necessary to supply railroad chutes with coal by night or Sunday, where no regular men therefor are exclusively employed, or when necessary in order not to impede the operation of the mine the day following, and for work which can not be performed or completed by the regular shift during regular hours without impeding the operation of the mine, may be performed and paid for at the same rate per hour.

13th. (a) The duties of the pit committee shall be confined to the adjustment of disputes between the pit boss and any of the members of the United Mine Workers of America working in and around the mine, for whom a scale is made, arising out of this agreement or any sub-district agreement made in connection herewith, where the pit boss and said miner or mine laborers have failed to agree

(b) In case of any local trouble arising at any shaft through such failure to agree between the pit boss and any miner or mine laborer, the pit committee and the miners' local president and the pit boss are empowered to adjust it; and in the case of their disagreement it shall be referred to the superintendent of the company and the president of the miners' local executive board, where such exists, and shall they fail to adjust it—and in all other cases—it shall be referred to the superintendent of the company and the miners' president of the sub district; and should they fail to adjust it, it shall be referred in writing to the officials of the company concerned and the state officials of the U. M. W. of A. for adjustment; and in all such cases the miners and mine laborers and parties involved must continue at work pending an investigation and adjustment until a final decision is reached in the manner above set forth.

(c) If any day men refuse to continue at work because of a grievance which has or has not been taken up for adjustment in the manner provided herein, and such action shall seem likely to impede the operation of the mine, the pit committee shall immediately furnish a man or men to take such vacant place or places at the scale rate, in order that the mine may continue at work; and it shall be the duty of any member or members of the United Mine Workers who may be called upon by the pit boss or pit committee to immediately take the place or places assigned to him or them in pursuance hereof.

(d) The pit committee in the discharge of its duties shall under no circumstances go around the mine for

any cause whatever unless called upon by the pit boss or by a miner or company man who may have a grievance that he can not settle with the boss; and as its duties are confined to the adjustment of any such grievances, it is understood that its members shall not draw any compensation except while actively engaged in the discharge of said duties. Any pit committeeman who shall attempt to execute any local rule or proceeding in conflict with any provision of this contract or any other made in pursuance hereof, shall be forthwith deposed as committeeman. The foregoing shall not be construed to prohibit the pit committee from looking after the matter of membership dues and initiations in any proper manner.

(e) Members of the pit committee employed as day men shall not leave their places of duty during working hours, except by permission of the operator, or in cases involving the stoppage of the mine.

(f) The right to hire and discharge, the management of the mine and the direction of the working force, are vested exclusively in the operator, and the U. M. W. of A. shall not abridge this right. It is not the intention of this provision to encourage the discharge of employés or the refusal of employment to applicants because of personal prejudice or activity in matters affecting the U. M. W. of A. If any employé shall be suspended or discharged by the company and it is claimed that an injustice has been done him, an investigation to be conducted by the parties and in the manner set forth in paragraphs (a) and (b) of this section shall be taken up promptly, and if it is proven that an injustice has been done, the operator shall reinstate said employé and pay him full compensation for the time he has been suspended and out of employment; provided, if no decision shall be rendered within five days, the case shall be considered closed in so far as compensation is concerned.

14th. The wages now being paid outside day labor at the various mines in this State shall constitute the wage scale for that class of labor during the life of this agreement; provided, that no top man shall receive less than $1.80 per day.

15th. In the event of an instantaneous death by accident in the mine, the miners and underground employés shall have the privilege of discontinuing work for the remainder of that day, but work at the option of the operator shall be resumed the day following, and continue thereafter. In case the operator elects to operate the mine on the day of the funeral of the deceased as above, or where death has resulted from an accident in the mine, individual miners and underground employés may at their option absent themselves from work for the purpose of attending such funeral, but not otherwise. And in the event that the operator shall elect to operate the mine on the day of such funeral, then from the proceeds of such day's operations each member of the U. M. W. of A. employed at the mine at which the deceased member was employed shall contribute 50 cents and the operator $25 for the benefit of the family of the deceased or his legal representatives, to be collected through the office of the company. Except in case of fatal accidents, as above, the mine shall in no case be thrown idle because of any death or funeral; but in the case of the death of any employé of the company or member of his family, any individual miner may, at his option, absent himself from work for the sake of attending such funeral, but not otherwise.

16th. (a) The scale of prices herein provided shall include, in ordinary conditions, the work required to load coal and properly timber the working places in the mine, and the operator shall be required to furnish the necessary props and timber in rooms or working face. And in long wall mines it shall include the proper mining of the coal and the brushing and care of the working places and roadway according to the present method and rules relating thereto, which shall continue unchanged.

(b) If any miner shall fail to properly timber, shoot and care for his working place, and such failure has entailed falls of slate, rock and the like, the miner whose fault has occasioned such damage shall repair the same without compensation, and if such miner fails to repair such damage he may be discharged.

Any dispute that may arise as to the responsibility under this clause shall be adjusted by the pit committee and mine foreman, and in case of their failure to agree shall be taken up for settlement under the 13th section of this agreement.

In cases where the mine manager directs the placing of cross-bars to permanently secure the roadway, then, and in such cases only, the miner shall be paid at the current price for each cross-bar when properly set.

The above does not contemplate any change from the ordinary method of timbering by the miner for his own safety.

17th. The operators will recognize the pit committee in the discharge of its duties as herein specified, but not otherwise, and agree to check off union dues, assessments and fines from the miners and mine laborers, when desired, on proper individual or collective continuous order, and furnish to the miners' representative a statement showing separately the total amount of dues, assessments and fines collected. When such collections are made card days shall be abolished. In case any fine is imposed the propriety of which is questioned, the amount of such fine shall be withheld by the operator until the question has been taken up for adjustment and a decision has been reached.

18th. The operators shall have the right in cases of emergency work, or ordinary repairs to the plant, to employ in connection therewith such men as in their judgment are best acquainted with and suited to the work to be performed, except where men are permanently employed for such work. Blacksmiths and other skilled labor shall make any necessary repairs to machinery and boilers.

19th. The erection of head frames, buildings, scales, machinery, railroad switches, etc., necessary for the completion of a plant to hoist coal, all being in the nature of construction work, are to be excluded from the jurisdiction of the United Mine Workers of America. Extensive repairs to or rebuilding the same class of work shall also be included in the same exception. The employés thereon to be excluded as above when employed on such work only.

20th. When any employé absents himself from his work for a period of two days, unless through sickness or by first having notified the mine manager and obtained his consent, he may be discharged.

21st. (a) Except at the basing point, Danville, the differential for machine mining throughout the State of Illinois shall be 7 cents per ton less than the pick mining rate. It being understood and agreed that the machine mining rate shall include the snubbing of coal either by powder or wedge and sledge as conditions may warrant, where chain machine is used; but it is understood that this condition shall not apply where two men have and work in one place only in the same shift, except at the option of the miner; and it shall also be optional with the miner which system of snubbing shall be followed. The division of the machine mining rate shall be fixed in joint sub-district meetings.

(b) The established rates on shearing machines and air or electric drills as now existing, shall remain unchanged during the ensuing year.

22d. Any underground employé not on hand so as to go down to his work before the hour for commencing work shall not be entitled to go below except at the convenience of the company. When an employé is sick or injured, he shall be given a cage at once. When a cage load of men comes to the bottom of the shaft, who have been prevented from working by reason of falls or other things over which they have no control, they shall be given a cage at once. For the accommodation of individual employes, less than a cage load, who have been prevented from working as above, a cage shall be run mid-forenoon, noon and mid-afternoon of each working day; provided, however, that the foregoing shall not be permitted to enable men to leave their work for other than the reasons stated above.

23d. This contract is in no case to be set aside because of any rules of the U. M. W. of A. now in force or which may hereafter be adopted; nor is this contract to be set aside by reason of any provision in their National, State or Local Constitutions.

24th. All classes of day labor are to work full eight hours, and the go-

ing to and coming from the respective working places is to be done on the day hand's own time. All company men shall perform whatever day labor the foreman may direct. An eight-hour day means eight hours work in the mines at the usual working places, exclusive of noon time, for all classes of inside day labor. This shall be exclusive of the time required in reaching such working places in the morning and departing from same at night.

Drivers shall take their mules to and from the stables, and the time required in so doing shall not include any part of the day's labor; their time beginning when they reach the change at which they receive empty cars—that is, the parting-drivers at the shaft bottom, and the inside-drivers at the parting—and ending at the same places; but in no case shall a driver's time be docked while he is waiting for such cars at the points named. The inside drivers, at their option, may either walk to and from their parting or take with them without compensation either loaded or empty cars, to enable them to ride. This provision, however, shall not prevent the inside drivers from bringing to and taking from the bottom regular trips, if so directed by the operator, provided such work is done within the eight hours.

The methods at present existing covering the harnessing, unharnessing, feeding and caring for the mules, shall be continued throughout the scale year beginning April 1, 1902; but in cases where any grievances exist in respect to same they shall be referred to the sub-district meetings for adjustment.

When the stables at which the mules are kept are located on the surface and the mules are taken in and out of the mines daily by the drivers, the question of additional compensation therefor, if any, is to be left to the sub-districts affected for adjustment, at their joint sub-district meetings.

25th. Mission Field scale is referred to Danville sub-district for adjustment.

26th. The company shall keep the mine in as dry condition as practicable by keeping the water off the roads and out of the working places.

27th. The operator shall keep sufficient blankets, oil, bandages, etc., and provide suitable ambulance or conveyances at all mines to properly convey injured persons to their homes after an accident.

28th. The operator shall see that an equal turn is offered each miner, and that he be given a fair chance to obtain the same. The check-weighman shall keep a turn bulletin for the turn-keeper's guidance. The drivers shall be subject to whomever the mine manager shall designate as turn-keeper, in pursuance hereof.

In mines where there is both hand and machine mining, an equal turn shall mean approximately the same turn to each man in the machine part of the mine and approximately the same turn to each man doing hand work; but not necessarily the same to each hand miner as to each man working with the machines.

29th. There shall be no demands made locally that are not specifically set forth in this agreement, except as agreed to in joint sub-district meetings held prior to May 1, 1902. Where no sub districts exist local grievances shall be referred to the United Mine Workers' State Executive Board and the mine owners interested.

THE UNITED MINE WORKERS OF AMERICA, DISTRICT NO. 12.

W. R. RUSSELL,
President.

T. J. REYNOLDS,
Vice-President.

W. D. RYAN,
Sec'y-Treas.

THE ILLINOIS COAL OPERATORS ASSOCIATION.

O. L. GARRISON,
President.

E. T. BENT,
Secretary.

PEORIA, March 13, 1902.

CONSOLIDATED ANNUAL REPORT

OF THE

ILLINOIS FREE EMPLOYMENT OFFICES OF CHICAGO,

AND THE

Report of the Peoria Office for Three Months for the Fiscal Year Ended Oct. 1, 1901.

The free employment offices of Illinois were created in 1899, by virtue of an act of the 41st General Assembly. This is the third annual report and epitomizes the business of the three offices during the fiscal year beginning Oct. 1, 1900, and ended Sept. 30, 1901.

The Peoria free employment office was opened for business on July 1, 1901, the 42d General Assembly having made an appropriation for its establishment and maintenance for two years. The report of the Peoria office covers a period of only three months, and for that reason its work is given separately from the work of the other offices. It will be noted that 82 per cent of the calls on the Peoria office for help were satisfactorily filled, and that 53.3 per cent of the applicants for employment secured positions. The good result shown by the Peoria office in the short space of three months is the best argument that could be made in favor of its continuance.

The year's work of the three Chicago offices is shown in consolidated and classified form in a series of 12 tables. Then follows the separate report of the superintendent of each office.

The period covered by the reports herewith submitted, has been one of great business activity and general prosperity. The demand for laborers and help of various kinds has been steady and these offices have had little difficulty in placing all who applied and who really desired work.

Among those who employ skilled labor, the work which the free employment offices are doing is better appreciated as its methods

become better understood. The number of establishments of good standing that make requisitions upon the free employment offices for help is continually increasing. When capable mechanics and clerks come to realize that an application filed in a free employment office is usually the forerunner of a job, there will be a considerable increase in the number of applicants for that sort of work.

The report indicates that the offices continue to be a boon to common laborers and farm hands. Large numbers of this class have sought and found employment. In the "manual labor" class the places provided applicants run up into the thousands. The classes of "domestic service" and "transportation" are also conspicuous for the number who have found employment.

The number of males who filed applications in the four offices was 16,324; number of females, 11,281; making a grand total of 27,605.

The number of positions secured for males was 13,625; the number secured for females, 10,371; aggregating a total of 23,996 positions secured, this showing is that 87 per cent of those applying for work secured positions.

Constitutionality of the Free Employment Law Affirmed by the Supreme Court.

Section 10 of the act provides that, no person, firm or corporation in the cities to which the law applies, shall open, operate or maintain a private employment agency for hire, or where a fee is charged to either applicants for employment or for help, without first having obtained a license from the Secretary of State, also requiring a license fee of $200 together with a bond in the penal sum of $1,000.

Immediately upon the act taking effect, the Bureau furnished the State's Attorney of Cook county a list of about 200 private employment agencies in the city of Chicago. This officer at once sent notices to the various agencies, calling their attention to the provisions of the law, and requesting that within a reasonable period a compliance therewith would be expected, also suggesting that prosecution would follow should they fail to comply with the law.

An organization of the interests of the private offices was effected; several persons conducting such offices were indicted, and a test case was brought in the criminal court of Cook county to determine the constitutionality of the section of the law to which reference has been made.

At the May term 1901 of that court the case was tried, and the defendant found guilty as charged in the indictment, and a fine of $50 and costs of suit assessed.

From this judgment an appeal was taken to the Supreme Court of the State. At the October term, 1901, of this court the case came up for hearing. The opinion of the court was handed down Oct. 21, 1901, and fully affirms the judgment of the lower court.

This important litigation having been brought to a successful issue, it is hoped that all reputable employment offices will promptly comply with the law. The disreputable and clandestine concerns will be prosecuted if they do not abandon the field.

Following is the full text of the decision of the Supreme Court:

George W. Price

vs.

The People of the State of Illinois.

Mr. Justice Boggs delivered the opinion of the court:

Section 10 of an act of the General Assembly entitled "An act to create free employment offices in cities of certain designated populations, and to provide for the maintenance, management and control of the same, and to prevent private imitations of the name of the same, and regulating private employment agencies," approved April 11, 1899, in force July 1, 1899, (Hurd's Stat. 1899, p. 848,) is as follows: "No person, firm or corporation in the cities designated in section 1 of this act [cities of not less than 50,000 population] shall open, operate or maintain a private employment agency for hire, or where a fee is charged to either applicants for employment or for help, without first having obtained a license from the Secretary of State, which license shall be $200 per annum, and who shall be required to give a bond to the People of the State of Illinois, in the penal sum of $1,000 for the faithful performance of the duties of private employment agent; and no such private agent shall print, publish, or paint on any sign, window, or newspaper publication, a name similar to that of the Illinois free employment offices. And any person, firm or corporation violating the provisions of this act, or any part thereof, shall be deemed guilty of a misdemeanor, and upon conviction shall be fined not less than $50 nor more than $100."

The plaintiff in error was indicted at the November term, 1899, of the criminal court of Cook county, for opening, operating and maintaining a private employment agency in the city of Chicago without having first obtained a license from the Secretary of State, and without having given a bond to the People of the State of Illinois in the penal sum of $1,000, conditioned for the faithful performance of the duties of private employment agent. The defendant moved to quash the indictment on the ground that the offense charged was unknown to the law of Illinois; that section 10 of the act was void because repugnant to the State Constitution and the Federal Constitution, and

because oppressive and unreasonable, and that the entire act was void because repugnant to the State and Federal Constitutions. The court denied the motion. The defendant entered a plea of not guilty. A jury was duly waived and the case was tried before the court. At the conclusion of the evidence the defendant submitted certain written propositions of law, by which the court was asked to hold (1) that the indictment did not charge the commission of any offense known to the law of Illinois; (2) that section 10 of said act was void because in contravention of the Constitution of Illinois and (3) of the Federal Constitution; (4) that the said act was void as a whole because repugnant to the State Constitution, and (5) the Federal Constitution; (6) that said section 10 was void because unreasonable and oppressive, and (7) because prohibitive and not regulative. The court took the case under advisement, and at the May term, 1901, marked each of the propositions of law so submitted "refused," found the defendant guilty and assessed against him a fine of $50. To reverse the judgment entered on that finding this writ of error has been sued out of this court.

The proof was clear that in the month of December, 1899, the defendant was engaged in the business of a private employment agent in the city of Chicago, and that he had not procured a license therefor from the Secretary of State. The plaintiff in error admits that if that section is valid in its entirety the judgment of the criminal court was warranted by the evidence.

Section 1 of article 4 of the Constitution of 1870 lodges the legislative power of the State in the General Assembly, consisting of the Senate and House of Representatives. The supreme or sovereign power of legislation, which under our form of government resides in the People, by the adoption of the said section 1 of article 4 of the Constitution of 1870 was vested in the General Assembly, subject only to the limitations and restrictions found in other portions of the organic instrument or in the Constitution of the United States. (Hawthorn vs. People, 109 Ill., 302; People vs. Hill, 162 *id.*, 186). It is a well recognized attribute of sovereign power to tax any occupation for the purpose of raising revenue, and such tax may be laid and collected in the form of a license fee. (Cooley's Const. Lim. 479; Cooley on taxation, 570, 572, 591, 592, 599; Banta vs. City of Chicago, 172 Ill., 204). Article 9 of the Constitution of 1870 is expressly devoted to the exercise of the power of raising revenues. Section 1 of the said article authorized the General Assembly to tax certain occupations specifically enumerated in the section. The occupation of private employment agent is not therein enumerated. The incorporation into the Constitution of the section giving the Legislature authority to tax certain enumerated occupations for the purpose of raising revenue does not operate to limit the power of the law-making department of the State, in exercising the sovereign right of taxation of occupations, to the particular occupations specified. The familiar canon of construction, that such enumeration should be held by implication to inhibit the taxation of any occupation not specified in the section, can not be given application, for the

reason such construction is expressly forbidden by section 2 of article 9 of the organic law. Expressions in Banta vs. City of Chicago, *supra*, that such canon of construction is applicable were made inadvertantly. No inhibition, therefore, arises against the imposition of a license fee upon the occupation of the plaintiff in error on the sole ground the fee was laid as a tax for purposes of revenue.

It is an attribute of sovereign power to enact laws for the exercise of such restraint and control over the citizen and his occupation as may be necessary to promote the health, safety and welfare of society. This power is known as the police power. In its exercise the General Assembly may provide that any occupation which is the proper subject of the power may not be pursued by the citizen except authorized by a license issued by public authority so to do. Such enactment may require the payment of a fee and the execution of a bond with security, conditioned in view of the objects and purpose of the act, as a prerequisite to the issuance of such license. What occupations are the proper subjects of this power is a judicial question. Town of Lake View vs. Rose Hill Cemetery Co., 70 Ill., 191; Ritchie vs. People, 155 *id.*, 98; Cooth vs. People, 186 *id.*, 43.

That the public welfare demands legislation prescribing regulations and restrictions to protect against the evils of imposition and extortion which have manifested themselves in the conduct of private employment agencies is not contradicted by counsel for plaintiff in error, but such counsel contend that the license fee imposed by said section 10 of the act is enacted for the primary purpose of raising revenue, and not as a means of enforcing any police regulation. The argument is, the sole regulation or restraint prescribed by the section on the business of employment agents is, they shall not simulate the name of the State free employment offices established by other sections of the act, and that the license fee of $200 has no relation to the cost of enforcing this regulation, but is an oppressive, arbitrary exaction on the occupation, and is in contravention of the guaranties of both the Federal and State Constitutions that "no person shall be deprived of life, liberty or property without due process of law." The position of the Attorney General is, the General Assembly is vested with the absolute and unrestricted power to determine what the license fee shall be, and that the judgment and discretion of the Legislature, as expressed in the act, are conclusive as to the reasonableness thereof. The Attorney General concedes that the ordinance of a municipality prescribing the exaction of a license fee upon any lawful occupation in virtue of the police power delegated to such municipality by the General Assembly may be open to review by the courts and the reasonableness or unreasonableness of the license fee fixed by the ordinance may be determined by the court, but insists the court has no such power of review when the General Assembly, in the exercise of the sovereign power of legislation, with which it is vested, has fixed and declared the amount of the license fee.

The enactment in question does not seek to prohibit the pursuit of the occupation of an employment agent by a private citizen, but only the regulation of that occupation. If, under the guise of that

regulation, the General Assembly should fix a license fee so exhorbitant in amount as to operate as a prohibition upon the calling or create a monopoly, and clearly without relation the cost and expense of regulation, the effect would be to deprive the citizen of a liberty and property right under the Constitution, and it would be within the power of the court to so declare. But the courts always proceed with great hesitation and caution in passing upon the validity of the enactments of the General Assembly. Primarily, we assume the law-making body considered the effect of the proposed enactment upon the constitutional rights of the citizen, and that it acted from patriotic and just motives, and in fixing the amount of the fee to be paid as a prerequisite to the right to a license to pursue the calling of an employment agent acted upon proper consideration and in the exercise of honest intentions. The requirements that a bond shall be given conditioned for the faithful performance of the duties of employment agent, and that a license shall be secured, are within themselves matters of regulation, in addition to the requirement that private agencies shall not simulate the name or signs of the public employment offices, and the conditions of the bond charge upon the public officials of the State whose duty it is to enforce compliance with such conditions further duties clearly in the nature of regulation of the occupation. What amount the applicant for a license shall be required to pay as a license fee is plainly committed to the General Assembly for determination, and the action of that department of the State government is conclusive, except, beyond serious doubt, it is manifest the amount of the fee has been in any particular instance established, not with regard to the purpose of regulation of the occupation with the view of protecting the public welfare, but with the real purpose to raise revenue under the guise of the police power, or to subvert the proper exercise of that power to the prohibition, by means of oppressive license fees, of the right of the citizen to exercise a lawful calling, in violation of the constitutional guaranties against the destruction of the liberty and property right of a citizen.

This court would not assume to enter upon the consideration of the question, pure and simple, whether the legislative mind and judgment were at fault in determining the amount to be required as license fee for the purpose of regulating an occupation in the interest of the welfare of the public. If errors or defects of this character exist in an enactment the remedy is by way of an application to the General Assembly, when again convened, for the repeal or modification of the ill-advised provision.

The judgment appealed from is affirmed.

STATE OF ILLINOIS, } ss.
SUPREME COURT. }

I, Christopher Mamer, elected clerk of the Supreme Court, in and for the Northern Grand Division of the State of Illinois, and keeper of the records and seal thereof, do hereby certify that the foregoing is a true copy of the opinion of the said Supreme Court in the above entitled cause of record in my office.

In Testimony Whereof, I have set my hand and affixed the seal of the said Supreme Court at Springfield, this 9th day of November, A. D. 1901.

C. MAMER,
Clerk of the Supreme Court.

With the constitutionality of the law fully affirmed and the justness of its provisions practically acknowledged, the time is not far distant when the free offices will be generally recognized, in the community where they are maintained, as clearing-houses for labor, both skilled and unskilled.

No system has yet been devised which is so well calculated to bring together the men and women in search of employment and those who need and will employ their services. Many have spent days and weeks in fruitless effort and aimlessly tramping about in search of work, when, had they applied to one of these offices, they would have been sent where their services were needed, and in all probability would have been promptly employed.

It is a part of the duty of the superintendents of these offices to inform themselves from time to time of the needs of the more prominent employers of labor in their district. By so doing the office is enabled to bring together, without loss of time, the two parties directly interested.

Money spent by the State in finding and procuring work for its citizens in the humbler walks of life is money well spent. If it be charity, these is no more deserving charity—for the ranks of the criminal and the debased are not recruited from the body of industrious artisans and workers placed by the free employment offices.

WORK OF THE THREE OFFICES IN CHICAGO.

Table I shows the combined business of the three Chicago offices for the past year and the Peoria office for three months, in the matter of "applications for employment" and "applications for help." The grand total number of applications filed for help of all kinds was 28,124; the grand total number of applicants for positions filed was 27,605—showing an excess of 519 applications for help over the number of applications for positions. The number of persons for whom work was secured was 23,996—leaving 4,128 applications for help unfilled.

TABLE I.—*Showing the combined business of the three Chicago offices for the year. Also, the business of the Peoria office for three months.*

OFFICES.	APPLICATIONS FOR EMPLOYMENT.		APPLICATIONS FOR HELP.		
	Number Filed.	Number of Positions Secured.	Number Unfilled.	Number Filed.	Number Unfilled.
North Side Office—Males	2,691	2,493	198	3,650	1,157
North Side Office—Females	2,927	2,754	173	3,540	786
Totals	5,618	*5,247	371	7,190	1,943
South Side Office—Males	7,753	6,964	789	7,274	310
South Side Office—Females	5,493	5,345	148	6,607	1,262
Totals	13,246	†12,309	937	13,881	1,572
West Side Office—Males	4,203	3,291	912	3,370	79
West Side Office—Females	2,230	1,919	311	2,182	263
Totals	6,433	‡5,210	1,223	5,552	342
Males—Three offices	14,647	12,748	1,899	14,294	1,546
Females—Three offices	10,650	10,018	632	12,329	2,311
Totals	25,297	22,766	2,531	26,623	3,857
Peoria Office (3 months)—Males	1,677	877	800	1,028	151
Peoria Office (3 Months)—Females	631	353	278	473	120
Totals	2,308	1,230	1,078	1,501	271
Total Males—Four Offices	16,324	13,625	2,699	15,322	1,697
Total Females—Four offices	11,281	10,371	910	12,802	2,431
Grand total	27,605	23,996	3,609	28,124	4,128

*1,172 of these positions were secured on applications filed last year.
†75 of these positions were secured on applications filed last year.
‡660 of these positions were secured on applications filed last year.

Table II shows the percentages of positions secured applicants for employment; also the percentages of applications for help that were successfully met in each of the Chicago offices and for these offices combined. The Peoria office is given separately. It will be noted that for the Chicago offices 87 per cent of the males and 94 per cent of the females applying found work; at the Peoria office the percentages were 52 and 56, respectively. Of the total number of requisi-

tions made on the Chicago offices by employers, over 85 per cent was furnished help to their satisfaction, and 82 per cent at the Peoria office.

TABLE II.—*Percentages of Positions Secured and Percentages of Help Furnished, Both Male and Female.*

OFFICES.	PERCENTAGE OF POSITIONS SECURED APPLICANTS FOR EMPLOYMENT.			PERDENTAGE OF APPLICATIONS FOR HELP FURNISHED.		
	Male.	Female.	Both male and female.	Male.	Female.	Both male and female.
North Side Office	92.64	94.09	93.40	68.30	77.80	73.00
South Side Office	90.00	97.30	92.93	95.74	80.90	88.67
West Side Office	78.30	86 05	80.99	97.66	88.00	93.84
The three offices	87.04	94.06	90.00	89.15	81.26	85.51
Peoria Office—(3 months)	52.30	55.94	53.25	85.31	74.63	81.94

APPLICATIONS FOR EMPLOYMENT AND POSITIONS SECURED.

Table III shows, for the Chicago offices only, the applications for employment and the positions secured, by occupations. The 14,647 males are distributed among 194 occupations, while the 10,650 females are distributed among 47 occupations. As showing succinctly some of the more important occupations dealt with during the year and the number of persons applying and the number securing places in each, the following is gleaned from the table:

	Applications.	Postions secured.
MALES:		
Barnmen	301	263
Boys	587	415
Carpenters	233	189
Clerks and salesmen	590	104
Coachmen	112	71
Cooks	297	236
Dishwashers	295	271
Factory hands	413	232
Farm hands and farmers	683	659
Housemen	670	536
Janitors	339	166
Laborers	6,117	5,859
Machinists and machine hands	290	116
Porters	370	267
Teamsters	652	496
Waiters	277	227
Watchmen	122	8
Total—17	12,348	10,115
FEMALES:		
Chambermaids	634	583
Cooks	983	905
Day workers	518	377
Dining room help	232	210
Dishwashers	513	495
Domestics	842	842
Factory work	283	240
House work, etc	3,391	3,276
Kitchen and pantry work	768	695
Laundresses	252	242
Nurses	242	188
Scrubwomen	268	258
Second work	342	286
Waitresses	696	644
Total—14	9,964	9,241

The classified list of males represent 17 occupations out of the whole number, and accounts for 12,348 of the applicants for work, or 84.3 per cent of the total, about one half being laborers; the number who secured positions in the same class is 10,115, or 82 per cent of those applying.

With few exceptions, in the list of selected occupations, more than 50 per cent of the applicants of each secured positions. While it is specially to be noted as to farm hands and laborers that 96 per cent of those applyIng were given employment.

The list of females embraces 14 occupations and includes 9,964, or 94 per cent of the whole number making applications for positions. In this list it is worthy of note that only in two occupations, day workers and nurses, less than 80 per cent secured employment, and that in two others, factory work and second work, less than 90 per cent secured work, while in nine of the list over 90 per cent secured work, and one, domestics, every applicant secured a position.

TABLE III.—*Showing the combined Work of the three Chicago offices; Applications for Employment and Positions secured for the year.*

Number.	Character of Occupations.	Applications for Employment.			Totals.	Positions Secured.			Totals.
		North Side Office.	South Side Office.	West Side Office.		North Side Office.	South Side Office.	West Side Office.	
	Males	2,691	7,753	4,203	14,647	2,493	6,964	3,291	12,748
	Applications previously filed	.....	.....	.....	.....	796	60	600	1,456
	Totals	2,691	7,753	4,203	14,647	1,697	6,904	2,691	11,292
1	Agents	.....	9	11	20	.....	7	11	18
2	Any light work	.....	11	2	13	.....	3	1	4
3	Apprentices	.....	2	37	39	.....	2	3	5
4	Architects	.....	1	.....	1	.....	1	.....	1
5	Artists	.....	5	1	6	.....	5	.....	5
6	Auctioneers	.....	1	.....	1	.....	.....	.....	.....
7	Baggagemen	.....	8	1	9	.....	8	.....	8
8	Bakers	17	18	12	47	2	15	9	26
9	Barbers	2	7	1	10	.....	6	.....	6
10	Barnmen	71	223	7	301	52	208	3	263
11	Bartenders	10	22	11	43	1	16	1	18
12	Bench hands	1	.....	.....	1	.....	.....	.....	.....
13	Bicycle workers	1	7	1	9	.....	5	.....	5
14	Bill posters	.....	6	.....	6	.....	6	.....	6
15	Blacksmiths	11	31	4	46	3	25	.....	28
16	Blacksmith helpers	7	11	6	24	7	9	3	19
17	Boiler makers	.....	4	.....	4	.....	3	.....	3
18	Bookbinders	.....	1	3	4	.....	1	.....	1
19	Bookkeepers	12	33	14	59	.....	3	.....	3
20	Boxmakers	2	13	.....	15	1	10	.....	11
21	Boys—bell	3	78	5	86	.....	69	.....	69
22	Boys—cash	.....	34	.....	34	.....	28	.....	28
23	Boys—delivery	.....	98	22	120	.....	81	5	86
24	Boys—errand	.....	133	1	134	.....	117	1	118
25	Boys—office	67	91	55	213	21	87	6	114
26	Brakemen	2	1	1	4	.....	.....	.....	.....
27	Brass finishers	1	2	6	9	.....	1	.....	1
28	Bricklayers	.....	6	.....	6	.....	5	.....	5
29	Brickmakers	.....	.....	13	13	.....	.....	4	4
30	Bridge builders	.....	2	.....	2	.....	2	.....	2
31	Broommakers	.....	.....	2	2	.....	.....	.....	.....
32	Brushmakers	.....	2	.....	2	.....	2	.....	2
33	Buffers	.....	.....	4	4	.....	.....	1	1
34	Butchers	5	11	8	24	1	7	3	11
35	Butlers	2	18	1	21	.....	17	.....	17

Work of the three offices—Table III.—Continued.

Number.	Character of Occupations.	Applications for Employment.			Totals.	Positions Secured.			Totals.
		North Side Office.	South Side Office.	West Side Office.		North Side Office.	South Side Office.	West Side Office.	
36	Cabinetmakers	3	3	3	9	1	3	2	6
37	Calciminers	.....	12	.....	12	.....	12	.....	12
38	Candymakers	1	.....	.....	1	.....	.....	.....	.....
39	Canvassers	.....	9	5	14	.....	9	5	14
40	Car builders	.....	14	.....	14	.....	14	.....	14
41	Carpenters	46	149	38	233	32	140	17	189
42	Carpet layers	.....	1	1	2	.....	1	1	2
43	Carriage trimmers	1	.....	.....	1	.....	.....	.....	.....
44	Carriage and wag'n mak'rs	.....	11	8	19	.....	9	8	17
45	Cashiers	.....	1	.....	1	.....	.....	.....	.....
46	Checkers	.....	.....	5	5	.....	.....	.....	.....
47	Chefs	.....	3	.....	3	.....	2	.....	2
48	Chippers	1	.....	.....	1	1	.....	.....	1
49	Cigarmakers	1	2	.....	3	.....	.....	.....	.....
50	Cleaners—harness or paint	.....	3	3	6	.....	3	3	6
51	Clerks—bill	.....	2	.....	2	.....	1	.....	1
52	Clerks—drug	.....	5	.....	5	.....	1	.....	1
53	Clerks—dry goods	.....	7	.....	7	.....	3	.....	3
54	Clerks—grocery	.....	13	.....	13	.....	11	.....	11
55	Clerks—hotel	.....	9	7	16	.....	2	.....	2
56	Clerks—shipping	.....	23	32	55	.....	3	1	4
57	Clerks and salesmen	.....	4	.....	4	.....	.....	.....	.....
58	Clerks, not stated	130	165	74	369	28	31	1	60
59	Coachmen	51	48	13	112	28	39	4	71
60	Coal heavers	.....	.....	2	2	.....	.....	1	1
61	Collectors	3	5	20	28	.....	4	.....	4
62	Companions	.....	1	.....	1	.....	.....	.....	.....
63	Compositors	.....	2	1	3	.....	1	.....	1
64	Conductors	6	.....	1	7	4	.....	.....	4
65	Cooks	46	218	33	297	28	191	17	236
66	Coopers	1	1	1	3	.....	1	.....	1
67	Copyists	.....	4	.....	4	.....	2	.....	2
68	Coremakers	.....	.....	1	1	.....	.....	.....	.....
69	Decorators	.....	.....	1	1	.....	.....	.....	.....
70	Demonstrators	.....	2	.....	2	.....	2	.....	2
71	Detectives	5	.....	.....	5	4	.....	.....	4
72	Dishwashers	29	250	16	295	17	241	13	271
73	Draughtsmen	2	1	.....	3	.....	1	.....	1
74	Drill pressmen	.....	1	7	8	.....	1	.....	1
75	Drivers	76	2	.....	78	25	2	.....	27
76	Druggists	.....	1	1	2	.....	.....	.....	.....
77	Dyers	.....	2	.....	2	.....	1	.....	1
78	Electricians	5	53	14	72	.....	30	.....	30
79	Elevatormen	38	45	24	107	22	25	4	51
80	Employés—general store	.....	4	.....	4	.....	1	.....	1
81	Employés—jobbing house	.....	2	.....	2	.....	1	.....	1
82	Employés—wholesale h'se	.....	7	.....	7	.....	2	.....	2
83	Engineers	31	74	44	149	3	36	3	42
84	Engravers	.....	1	.....	1	.....	.....	.....	.....
85	Factory hands	112	32	249	413	63	38	131	232
86	Farmers	86	6	.....	92	65	6	.....	71
87	Farm hands	.....	432	159	591	.....	458	130	588
88	Firemen	21	70	47	138	2	35	3	40
89	Florists	2	1	1	4	.....	1	.....	1
90	Foreman	.....	2	4	6	.....	1	1	2
91	Foundrymen	.....	7	1	8	.....	6	.....	6
92	Furnace tenders	.....	3	2	5	.....	2	.....	2
93	Freighthousemen	.....	.....	1	1	.....	.....	.....	.....
94	Gardeners	6	20	1	27	1	14	1	16
95	Gasfitters	.....	3	2	5	.....	3	.....	3
96	Glassworkers	1	.....	.....	1	.....	.....	.....	.....
97	Grain shovelers	.....	7	35	42	.....	7	35	42
98	Hardwood finishers	.....	2	.....	2	.....	2	.....	2
99	Harnessmakers	2	4	.....	6	.....	3	.....	3
100	Hatmakers	.....	1	.....	1	.....	.....	.....	.....
101	Horseshoers	.....	2	.....	2	.....	1	.....	1
102	Horseshoers' helpers	.....	3	.....	3	.....	2	.....	2
103	Horse trainers	.....	.....	1	1	.....	.....	.....	.....
104	Hostlers	.....	2	33	35	.....	1	22	23
105	Housemen	167	390	113	670	120	351	65	536
106	Ice helpers	.....	.....	5	5	.....	.....	2	2
107	Iron workers	.....	8	4	12	.....	4	3	7
108	Janitors	84	161	94	339	35	106	25	166

Work of the three offices—Table III.—Continued.

Number	Character of Occupations.	Applications for Employment.			Totals.	Positions Secured.			Totals.
		North Side Office.	South Side Office.	West Side Office.		North Side Office.	South Side Office.	West Side Office.	
109	Kitchenwork	23	139	.....	162	9	127	.....	136
110	Laborers	1,133	1,562	1,919	4,614	975	1,551	1,695	4,221
111	Laborers, railroad	.....	1,285	218	1,503	.....	1,420	218	1,638
112	Lathe hands	.....	.....	7	7	.....	.....	.....	.....
113	Lathers	1	3	1	5	.....	2	1	3
114	Laundrymen	1	13	3	17	.....	10	.....	10
115	Lineman, electrical	.....	4	.....	4	.....	2	.....	2
116	Locksmiths	.....	1	.....	1	.....	1	.....	1
117	Machine hands	10	34	45	89	2	20	1	23
118	Machinists	33	92	76	201	14	71	8	93
119	Masons	.....	4	.....	4	.....	3	.....	3
120	Metal workers	.....	.....	1	1	.....	.....	.....	.....
121	Millwrights	.....	2	1	3	.....	1	.....	1
122	Models	.....	3	.....	3	.....	3	.....	3
123	Molders	3	33	5	41	.....	33	3	36
124	Molders' helpers	.....	4	.....	4	.....	3	.....	3
125	Motormen	7	1	.....	8	6	1	.....	7
126	Nickel platers	1	.....	.....	1	.....	.....	.....	.....
127	Nurses	2	16	3	21	2	9	.....	11
128	Office help	.....	42	.....	42	.....	12	.....	12
129	Oilers	.....	2	.....	2	.....	2	.....	2
130	Operators	1	.....	.....	1	.....	.....	.....	.....
131	Orderlies	.....	4	.....	4	.....	3	.....	3
132	Packers	12	53	11	76	2	35	3	40
133	Painters	16	48	30	94	2	29	4	35
134	Paperhangers	1	10	.....	11	.....	9	.....	9
135	Pantrymen	.....	2	1	3	.....	1	.....	1
136	Patternmakers	.....	2	2	4	.....	1	1	2
137	Peddlers—milk	.....	.....	4	4	.....	.....	3	3
138	Photographers	4	.....	1	5	1	.....	.....	1
139	Piano finishers	.....	.....	1	1	.....	.....	.....	.....
140	Piano makers	.....	3	.....	3	.....	1	.....	1
141	Piano tuners	.....	1	.....	1	.....	.....	.....	.....
142	Plasterers	.....	4	.....	4	.....	3	.....	3
143	Plumbers	4	2	1	7	.....	1	.....	1
144	Polishers—metal	.....	2	8	10	.....	1	1	2
145	Polishers—not stated	4	1	5	10	.....	.....	2	2
146	Porters	71	247	52	370	35	206	26	267
147	Pressers	1	.....	3	4	.....	.....	.....	.....
148	Pressmen	.....	4	.....	4	.....	2	.....	2
149	Printers	7	26	2	35	.....	15	.....	15
150	Proofreaders	.....	1	.....	1	.....	1	.....	1
151	Punch press hands	.....	.....	5	5	.....	.....	.....	.....
152	Rodmen	.....	.....	1	1	.....	.....	.....	.....
153	Roofers	.....	4	.....	4	.....	4	.....	4
154	Sailors	.....	2	.....	2	.....	1	.....	1
155	Salesmen	11	30	78	119	2	12	8	22
156	Sausagemakers	.....	1	.....	1	.....	1	.....	1
158	Shoemakers	1	9	1	11	.....	7	1	8
158	Solicitors	2	10	.....	12	.....	10	.....	10
159	Steamfitters	2	7	6	15	.....	4	.....	4
160	Stenographers	2	16	2	20	1	4	.....	5
161	Stewards	1	1	.....	2	.....	1	.....	1
162	Stock farm hands	.....	12	.....	12	.....	10	.....	10
163	Stockkeepers	1	1	.....	2	1	1	.....	2
164	Stonecutters	.....	3	.....	3	.....	1	.....	1
165	Stonemasons	.....	6	.....	6	.....	4	.....	4
166	Stovemen	1	.....	1	2	.....	.....	.....	.....
167	Switchmen	2	.....	.....	2	1	.....	.....	1
168	Tailors	1	11	2	14	.....	8	.....	8
169	Tanners	.....	.....	1	1	.....	.....	.....	.....
170	Teachers—music	.....	1	.....	1	.....	.....	.....	.....
171	Teachers—not stated	.....	3	.....	3	.....	.....	.....	.....
172	Teamsters	101	317	234	652	59	288	149	496
173	Telegraphers	1	1	.....	2	.....	.....	.....	.....
174	Tile roofers	.....	1	.....	1	.....	.....	.....	.....
175	Timekeepers	.....	2	2	4	.....	.....	.....	.....
176	Tinsmiths	5	9	1	15	1	8	.....	9
177	Toolmakers	1	2	3	6	.....	1	.....	1
178	Truckmen	.....	13	6	19	.....	13	.....	13
179	Trunkmakers	.....	1	.....	1	.....	.....	.....	.....
180	Undertakers	1	.....	.....	1	.....	.....	.....	.....
181	Ushers	.....	.....	1	1	.....	.....	.....	.....

Work of the three offices—Table III.—Continued.

Number.	Character of Occupations.	Applications for Employment.			Totals.	Positions Secured.			Totals.
		North Side Office.	South Side Office.	West Side Office.		North Side Office.	South Side Office.	West Side Office.	
182	Upholsterers	4	12	1	17	3	11	.....	14
183	Vise hands	.....	4	1	5	.....	3	.....	3
184	Wagonmakers	4	1	.....	5	1	1	.....	2
185	Waiters	23	245	9	277	11	214	2	227
186	Watchmakers	.....	1	.....	1	.....	.....	.....	.....
187	Watchmen	19	42	61	122	.....	6	2	8
188	Weavers	.....	1	.....	1	.....	.....	.....	.....
189	Wholesale men	.....	.....	27	27	.....	.....	.....	.....
190	Window dressers	.....	10	.....	10	.....	8	.....	8
191	Window washers	1	65	12	78	1	60	10	71
192	Wood finishers	.....	3	1	4	.....	1	.....	1
193	Wood workers	1	13	7	21	1	10	1	12
194	Yardmen	.....	18	4	22	.....	17	3	20
	Females	2,927	5,493	2,239	10,650	2,754	5,345	1,919	10,018
	Applications previously filed	.....	.....	.....	.....	376	15	60	451
	Totals	2,927	5,493	2,230	10,650	2,378	5,330	1,859	9,567
1	Agents	.....	2	.....	2	.....	2	.....	2
2	Attendants	.....	.....	7	7	.....	.....	.....	.....
3	Bakers	.....	.....	1	1	.....	.....	1	1
4	Bindery girls	.....	6	.....	6	.....	6	.....	6
5	Bookkeepers	.....	7	1	8	.....	2	.....	2
6	Canvassers	1	.....	7	8	1	.....	7	8
7	Cash girls	.....	.....	1	1	.....	.....	.....	.....
8	Cashiers	9	10	6	25	.....	3	.....	3
9	Clerks	22	16	19	57	7	11	1	19
10	Chambermaids	141	385	108	634	110	379	94	583
11	Companions	3	4	4	11	2	2	.....	4
12	Cooks	325	519	139	983	274	510	121	905
13	Copyists	.....	1	.....	1	.....	1	.....	1
14	Day workers	201	113	204	518	165	112	100	377
15	Demonstrators	10	2	.....	12	7	.....	.....	7
16	Designers	1	.....	.....	1	.....	.....	.....	.....
17	Diningroom help	98	.....	134	232	85	.....	125	210
18	Dishwashers	87	345	81	513	83	342	70	495
19	Domestics	.....	.....	842	842	.....	.....	842	842
20	Dressmakers	.....	.....	3	3	.....	.....	1	1
21	Factory work	107	75	101	283	72	71	97	240
22	General housework	1,223	.....	.....	1,223	1,087	.....	.....	1,087
23	Governesses	1	.....	2	3	.....	.....	.....	.....
24	Hotel help	.....	.....	1	1	.....	.....	.....	.....
25	Housekeepers	60	125	94	279	37	94	32	163
26	Housework	.....	2,168	.....	2,168	.....	2,189	.....	2,189
27	Janitresses	1	1	3	5	1	1	2	4
28	Kitchen help	204	341	92	637	156	334	86	576
29	Lady's maid	1	2	.....	3	1	2	.....	3
30	Laundresses	45	144	63	252	36	143	63	242
31	Matrons	1	.....	1	2	1	.....	.....	1
32	Milliners	.....	.....	1	1	.....	.....	.....	.....
33	Models	.....	1	.....	1	.....	1	.....	1
34	Nurses	56	112	74	242	31	97	60	188
35	Office work	.....	38	42	80	.....	22	.....	22
36	Paint cleaners	.....	.....	2	2	.....	.....	1	1
37	Pantry work	14	101	16	131	11	97	11	119
38	Photographers	.....	.....	1	1	.....	.....	.....	.....
39	Reception service	3	3	.....	6	.....	2	.....	2
40	Saleswomen	1	11	.....	12	.....	2	.....	2
41	Scrub women	15	248	5	268	10	244	4	258
42	Seamstresses	20	37	20	87	15	30	15	60
43	Second work	122	157	63	342	90	150	46	286
44	Solicitors	1	2	.....	3	1	2	.....	3
45	Stenographers	10	35	11	56	.....	9	.....	9
46	Tray girls	1	.....	.....	1	1	.....	.....	1
47	Waitresses	133	482	81	696	94	470	80	644

CLASSIFIED OCCUPATIONS.

Table IV is a grouping of the various occupations into the classes in which they naturally belong, and shows in the clearest way the character of the work during the year. There are nine classes for the males and seven for the females.

TABLE IV.—*Classified Occupations of Applicants for Employment, Positions Secured and Applications for help in the three Chicago offices, with Percentages in each Class.*

Number.	Classification of Occupations.	Applications for Emptoyment.		Positions Secured.		Applications for Help.	
		Number.	Per centages of each class.	Number.	Per centages of each class.	Number.	Per centages of each class.
	Males	14,647		12,748		14,294	
				11,292			
	Not classified by occupattons			1.456			
	AGRICULTURAL:—	726	100.00	686	100.00	841	100.00
1	Farmers	92	12.67	71	10.35	122	14.51
2	Farm hands	591	81.41	588	85.71	685	81.45
3	Florists	4	.55	1	.15	2	.24
4	Gardeners	27	3.72	16	2.33	21	2.51
5	Stock farm hands	12	1.65	10	1.46	11	1.30
	CLERICAL:—	160	100.00	17	100.00	21	100.00
1	Bookkeepers	59	36.88	3	17.65	4	19.05
2	Clerks, bill	2	1.25	1	5.88	1	4.76
3	Clerks, hotel	16	10.00	2	11.76	2	9.52
4	Clerks, shipping	55	34.37	4	23.53	4	19.05
5	Copyists	4	2.50	2	11.76	2	9.52
6	Stenographers	20	12.50	5	29.42	8	38.10
7	Timekeepers	4	2.50				
	COMMERCIAL:—	802	100.00	276	100.00	346	100.00
1	Agents	20	2.49	18	6.52	18	5.20
2	Boys—cash	34	4.23	28	10.15	30	8.67
3	Boys—delivery	120	15.00	86	31.16	87	25.15
4	Canvassers	14	1.74	14	5.07	28	8.09
5	Cashiers	1	.13			1	.29
6	Checkers	5	.63				
7	Clerks, drug	5	.63	1	.36	1	.29
8	Clerks, dry goods	7	.86	3	1.09	3	.87
9	Clerks, grocery	13	1.62	11	3.99	11	3.18
10	Clerks, not classified	368	45.88	60	21.74	78	22.54
11	Collectors	28	3.49	4	1.45	5	1.45
12	Demonstrators	2	.25	2	.72	2	.58
13	Designers					2	.58
14	Detectives	5	.63	4	1.45	11	3.18
15	Decorators	1	.13				
16	Peddlers, milk	4	.50	3	1.09	3	.87
17	Salesmen	123	15.33	22	7.97	24	6.93
18	Solicitors	12	1.49	10	3.62	24	6.93
19	Stockkeepers	2	.25	2	.72	8	2.31
20	Ushers	1	.13				
21	Wholesale men	27	3.35			1	.29
22	Window dressers	10	1.24	8	2.90	9	2.60

Table IV.—Continued.

Number.	Classification of Occupations.	Applications for Employment.		Positions Secured.		Applications for Help.	
		Number.	Per centages of each class.	Number.	Per centages of each class.	Number.	Per centages of each class.
	Domestic Service:—	2,103	100.00	1,697	100.00	1,927	100.00
1	Butlers	21	1.00	17	1.00	17	.89
2	Carpet layers	2	.10	2	.12	2	.10
3	Chippers	1	.05	1	.06	2	.10
4	Chefs	3	.14	2	.12	2	.10
5	Cooks	297	14.12	236	13.90	269	13.96
6	Dishwashers	295	14.03	271	15.97	311	16.14
7	Housemen	670	31.86	536	31.59	596	30.93
8	Kitchen work	162	7.70	136	8.01	153	7.94
9	Pantrymen	3	.14	1	.06	4	.21
10	Porters	370	17.59	267	15.73	307	15.93
11	Stewards	2	.10	1	.06	1	.05
12	Waiters	277	13.17	227	13.38	263	13.65
	Manual Labor:—	6,172	100.00	5,905	100.00	7,688	100.00
1	Brick packers	13	.21	4	.07	13	.17
2	Grain shovelers	42	.68	42	.71	42	.55
3	Laborers	4,614	74.76	4,221	71.48	5,930	77.13
4	Laborers, railroad	1,503	24.35	1,638	27.74	1,703	22.15
	Professional:—	39	100.00	19	100.00	21	100.00
1	Architects	1	2.56	1	5.26	1	4.76
2	Artists	6	15.38	5	26.32	6	28.57
3	Draughtsmen	3	7.70	1	5.26	1	4.76
4	Druggists	2	5.13	.....	.....	.....	.....
5	Nurses	21	63.85	11	57.90	12	57.15
6	Proofreaders	1	2.56	1	5.26	1	4.76
7	Teachers, music	1	2.56	.....	.....	.....	.....
8	Teachers, not stated	3	7.70	.....	.....	.....	.....
9	Undertakers	1	2.56	.....	.....	.....	.....
	Trades:—	1,645	100.00	812	100.00	1,083	100.00
1	Bakers	47	2.86	26	3.20	30	2.77
2	Barbers	10	.61	6	.74	7	.66
3	Bench hands	1	.06	.....	.....	.....	.....
4	Bicycle workers	9	.55	5	.62	6	.56
5	Blacksmiths	46	2.80	28	3.45	48	4.43
6	Buffers	4	.24	1	12	1	.09
7	Boilermakers	4	.24	3	.37	3	.28
8	Bookbinders	4	.24	1	.12	1	.09
9	Boxmakers	15	.91	11	1.35	11	1.02
10	Brass finishers	9	.55	1	.12	2	.18
11	Bricklayers	6	.36	5	.62	11	1 02
12	Bridge builders	2	.12	.....	.....	.....	.....
13	Broommakers	2	.12	2	.25	2	.18
14	Brush makers	2	.12	2	.25	2	.18
15	Butchers	24	1.46	11	1.35	14	1.30
16	Buttonholemakers	.....	.....	.....	.....	6	.56
17	Cabinetmakers	9	.55	6	.74	12	1.11
18	Calkers	.....	.....	.....	.....	1	.09
19	Calsominers	12	.73	12	1.48	12	1.11
20	Candymakers	1	.06	.....	.....	1	.09
21	Car builders	14	.85	14	1.73	16	1.48
22	Carpenters	233	14.16	189	23.28	249	22.99
23	Carriage trimmers	1	.06	.....	.....	.....	.....
24	Cigarmakers	3	.18	.....	.....	.....	.....
25	Coal miners	.....	.....	.....	.....	60	5.54
26	Compositors	3	.18	1	.12	1	.09
27	Coopers	3	.18	1	.12	1	.09
28	Coremakers	1	.06	.....	.....	.....	.....
29	Drill press men	8	.49	1	.12	1	.09
30	Dyers	2	.12	1	.12	1	.09
31	Electricians	72	4.38	30	3.70	32	2.95
32	Engineers	149	9.06	42	5.17	53	4.89

Table IV.—Continued.

Number.	Classification of Occupations.	Applications for Employment.		Positions Secured.		Applications for Help.	
		Number.	Per-centages of each class.	Number.	Per-centages of each class.	Number.	Per-centages of each class.
	Trades—*Concluded.*						
33	Engravers	1	.06				
34	Firemen	138	8.38	40	4.93	52	4.80
35	Gas fitters	5	.30	3	.37	3	.28
36	Glass workers	1	.06				
37	Hardwood finishers	2	.12	2	.25	2	.18
38	Harness makers	6	.36	3	.37	3	.28
39	Hat makers	1	.06				
40	Horseshoers	2	.12	1	.12	1	.09
41	Iron workers	12	.73	7	.86	9	.83
42	Lathe hands	7	.43				
43	Lathers	5	.30	3	.37	5	.46
44	Laundrymen	17	1.03	10	1.23	10	.92
45	Linemen, electrical	4	.24	2	.25	2	.18
46	Locksmiths	1	.06	1	.12	1	.09
47	Machine hands	89	5.41	23	2.83	7	2.49
48	Machinists	201	12.22	93	11.46	121	11.17
49	Masons	4	.24	3	.37	3	.28
50	Metal workers	1	.06				
51	Millwrights	3	.18	1	.12	1	.09
52	Molders	41	2.49	36	4.43	43	3.98
53	Nickel platers	1	.06				
54	Packers	76	4.62	40	4.93	43	3.98
55	Painters	94	5.71	35	4.31	40	3.69
56	Paperhangers	11	.67	9	1.11	9	.83
57	Patternmakers	4	.24	2	.25	3	.28
58	Photographers	5	.30	1	.12	1	.09
59	Piano finishers	1	.06				
60	Piano makers	3	.18	1	.12	1	.09
61	Plasterers	4	.24	3	.37	3	.28
62	Plumbers	7	.43	1	.12	1	.09
63	Polishers, metal	10	.61	2	.25	2	.18
64	Polishers, not stated	10	.61	2	.25	3	.28
65	Pressers	4	.24				
66	Pressmen	4	.24	2	.25	2	.18
67	Printers	35	2.13	15	1.85	15	1.39
68	Punch press hands	5	.30				
69	Roofers	4	.24	4	.49	4	.37
70	Sausagemakers	1	.06	1	.12	1	.09
71	Shoemakers	11	.67	8	.99	9	.83
72	Steamfitters	15	.91	4	.49	4	.37
73	Stonecutters	3	.18	1	.12	1	.09
74	Stonemasons	6	.36	4	.49	5	.46
75	Tanners	1	.06				
76	Tailors	14	.85	8	.99	9	.83
77	Telegraphers	2	.12				
78	Tile roofers	1	.06				
79	Tinsmiths	15	.91	9	1.11	14	1.30
80	Toolmakers	6	.36	1	.12	1	.09
81	Trunkmakers	1	.06				
82	Upholsterers	17	1.03	14	1.72	17	1.57
83	Vise hands	5	.30	3	.37	3	.28
84	Wagonmakers	5	.30	2	.25	2	.18
85	Watchmakers	1	.06				
86	Weavers	1	.06				
87	Wood finishers	4	.24	1	.12	1	.09
88	Woodworkers	21	1.28	12	1.48	22	2.04
	Transportation:—	1,354	100.00	981	100.00	1,260	100.00
1	Baggagemen	9	.66	8	.82	8	.63
2	Barnmen	301	22.23	263	26.81	305	24.21
3	Brakmen	4	.30			1	.08
4	Carriage and wagon washers	19	1.40	17	1.73	22	1.75
5	Coachmen	112	8.27	71	7.24	86	6.82
6	Conductors	7	.52	4	.41	4	.32
7	Drivers	78	5.76	27	2.75	42	3.33
8	Elevatormen	107	7.90	51	5.20	59	4.68
9	Freightlhousemen	1	.08				
10	Hostlers	35	2.58	23	2.34	36	2.86

Table IV.—Continued.

Number.	Classification of Occupations.	Applications for Employment.		Positions Secured.		Applications for Help.	
		Number.	Per-centages of each class.	Number.	Per-centages of each class.	Number.	Per-centages of each class.
	TRANSPORTATION—*Concluded.*						
11	Motormen	8	.59	7	.71	9	.71
12	Switchmen	2	.16	1	.10	2	.16
13	Teamsters	652	48.15	496	50.56	666	52.86
14	Truckmen	19	1.40	13	1.33	20	1.59
	MISCELLANEOUS:—	1,645	100.00	899	100.00	1,107	100.00
1	Any light work	13	.79	4	.44	4	.36
2	Apprentices	39	2.38	5	.55	8	.72
3	Auctioneers	1	.06				
4	Bartenders	43	2.62	18	2.00	21	1.90
5	Blacksmith helpers	24	1.46	19	2.11	29	2.62
6	Bill posters	6	.36	6	.67	8	.72
7	Boys, bell	86	5.23	69	7.68	71	6.42
8	Boys, errand	134	8.15	118	13.13	121	10.93
9	Boys, office	213	12.95	114	12.69	152	13.73
10	Cleaners, harness or paint	6	.36	6	.67	6	.54
11	Coal heavers	2	.12	1	.11	1	.09
12	Companions	1	.06				
13	Employés, general store	4	.24	1	.11	1	.09
14	Employés, jobbing house	2	.12	1	.11	1	.09
15	Employés, wholesale house	7	.42	2	.22	3	.27
16	Factory hands	413	25.11	232	25.81	341	30.81
17	Foremen	6	.36	2	.22	2	.18
18	Foundrymen	8	.49	6	.67	8	.72
19	Furnace tenders	5	.30	2	.22	2	.18
20	Horseshoers' helpers	3	.18	2	.22	2	.18
21	Horse trainers	1	.06				
22	Ice helpers	5	.30	2	.22	5	.45
23	Janitors	339	20.61	166	18.47	188	16.99
24	Models	3	.18	3	.33	3	.27
25	Molders' helpers	4	.24	3	.33	3	.27
26	Office help	42	2.56	12	1.34	12	1.08
27	Oilers	2	.12	2	.22	2	.18
28	Operators	1	.06			1	.09
29	Orderlies	4	.24	3	.33	3	.27
30	Piano tuners	1	.06				
31	Rodmen	1	.06				
32	Sailors	2	.12	1	.11	1	.09
33	Sign posters					2	.18
34	Stovemen	2	.12				
35	Watchmen	122	7.42	8	.89	8	.72
36	Window washers	78	4.75	71	7.90	76	6.87
37	Yardmen	22	1.34	20	2.23	22	1.99
	Females	10,650		10,018		12,328	
				9,567			
	Not classified by occupations			451			
	CLERICAL:—	145	100.00	34	100.00	36	100.00
1	Bookkeepers	8	5.52	2	5.88	2	5.55
2	Copyists	1	.69	1	2.94	1	2.78
3	Office work	80	55.17	22	64.71	23	63.89
4	Stenographers	56	38.62	9	26.47	10	27.78
	COMMERCIAL:—	120	100.00	44	100.00	111	100.00
1	Agents	2	1.67	2	4.54	2	1.80
2	Canvassers	8	6.67	8	18.18	42	37.84
3	Cash girls	1	.83				
4	Cashiers	25	20.82	3	6.82	4	3.60
5	Clerks	57	47.50	19	43.18	28	25.23
6	Demonstrators	12	10.00	7	15.91	9	8.11

Table IV.—Concluded.

Number.	Classification of Occupations.	Applications for Employment.		Positions Secured.		Applications for Help.	
		Number.	Per-centages of each class.	Number.	Per-centages of each class.	Number.	Per-centages of each class.
	COMMERCIAL—*Concluded.*						
7	Markers (laundry)	.....	.....	.....	.....	1	.90
8	Saleswomen	12	10.00	2	4.55	2	1.80
9	Solicitors	3	2.50	3	6.82	23	20.72
	DOMESTIC SERVICE:	9,730	100.00	8,981	100.00	11,408	100.00
1	Chambermaids	634	6.52	583	6.49	676	5.93
2	Cooks	983	10.10	905	10.08	1,181	10.35
3	Dayworkers	518	5.32	377	4.20	403	3.53
4	Dining-room help	232	2.39	210	2.35	315	2.76
5	Dishwashers	513	5.27	495	5.51	582	5.10
6	Domestics	842	8.65	842	9.38	1,045	9.16
7	General housework	1,223	12.57	1,087	12.10	1,512	13.25
8	Hotel work	1	.01	.....	.....	.....	.....
9	Housekeepers	279	2.87	163	1.82	188	1.65
10	Housework	2,168	22.28	2,189	24.37	2,815	24.68
11	Kitchen help	637	6.55	576	6.41	679	5.95
12	Laundresses	252	2.59	242	2.69	341	2.99
13	Matrons	2	.02	1	.01	1	.01
14	Pantry work	131	1.35	119	1.33	147	1.29
15	Paint cleaners	2	.02	1	.01	2	.02
16	Reception service	6	.06	2	.02	2	.02
17	Scrub women	268	2.75	258	2.87	312	2.73
18	Second work	342	3.52	286	3.18	360	3.16
19	Tray girl	1	.01	1	.01	2	.02
20	Waitresses	696	7.15	644	7.17	845	7.40
	PERSONAL SERVICE:	21	100.00	7	100.00	9	100.00
1	Attendants	7	33.33	.....	.....	.....	.....
2	Companions	11	52.38	4	57.14	5	55.56
3	Lady's maid	3	14.29	3	42.86	4	44.44
	PROFESSIONAL:	245	100.00	188	100.00	240	100.00
1	Governesses	3	1.22	.....	.....	1	.42
2	Nurses	242	98.78	188	100.00	239	99.58
	TRADES:	93	100.00	62	100.00	115	100.00
1	Baker	1	1.08	1	1.61	1	.87
2	Dressmakers	3	3.23	1	1.61	1	.87
3	Milliners	1	1.07	.....	.....	.....	.....
4	Photographers	1	1.07	.....	.....	.....	.....
5	Seamstresses	87	93.55	60	9.678	85	73.91
6	Tailoress	.....	.....	.....	.....	3	2.61
7	Tiemakers	.....	.....	.....	.....	25	21.74
	MISCELLANEOUS:	296	100.00	251	100.00	409	100.00
1	Bottle labelers	.....	.....	.....	.....	3	.73
2	Designers	1	.34	.....	.....	.....	.....
3	Factory work	283	95.61	240	95.62	391	95.60
4	Janitresses	5	1.69	4	1.59	7	1.71
5	Models	1	.34	1	.40	1	.25
6	Telephone girls	.....	.....	.....	.....	1	.25
7	Bindery girls	6	2.02	6	2.39	6	1.46

Table V is a summary of the preceding table and shows results by classes. Reviewing this table it will be seen that of the whole number of males (14,647) applying for work, 6,172, or over 42 per cent, were in search of manual labor; and of the 11,292 positions secured, 5,905, or over 52 per cent, were obtained for persons representing this class. Other industries show similar favorable results in proportion to numbers involved.

Among the females Domestic service continues to furnish the most applicants. Of the 10,650 females applying 9,730, or over 91 per cent, were of this class, and nearly 94 per cent of them were placed to the mutual satisfaction of employer and employé. This is a fact which gives emphasis to the claim that the character of help supplied by the free employment offices is reliable.

TABLE V.—*Summary of Classified Occupations, as shown in Table IV.*

SEX AND CLASSES OF OCCUPATIONS.	Number of occupations in each class.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Per-centages	Number.	Per-centages	Number.	Per-centages
MALES:—	198	14,647	100.00	11,292	100.00	14,294	100.00
Not classified	.....	.....	.....	1,456	.....	.....	.....
Agricultural	5	726	4.96	686	6.08	841	5.88
Clerical	7	160	1.09	17	.15	21	.15
Commercial	22	802	5.47	276	2.44	346	2.42
Domestic service	12	2,103	14.36	1,697	15.03	1,927	13.48
Manual labor	4	6,172	42.14	5,905	52.29	7,688	53.79
Professional	9	39	.27	19	.17	21	.15
Trades	88	1,645	11.23	812	7.19	1,083	7.57
Transportation	14	1,354	9.24	981	8.69	1,260	8.82
Miscellaneous	37	1,645	11.24	899	7.96	1,107	7.74
FEMALES:—	52	10,650	100.00	9,567	100.00	12,328	100.00
Not classified	.....	.....	.....	451	.....	.....	.....
Clerical	4	145	1.36	34	.36	36	.29
Commercial	9	120	1.13	44	.46	111	.90
Domestic service	20	9,730	91.36	8,981	93.87	11,408	92.54
Personal service	3	21	.20	7	.07	9	.07
Professional	2	245	2.30	188	1.97	240	1.95
Trades	7	93	.87	62	.65	115	.93
Miscellaneous	7	296	2.78	251	2.62	409	3.32

AGE PERIODS.

Table VI shows the age periods of all applicants. Reducing the number of males in each period to percentages, we find that 14 per cent were under 20 years of age; 32 per cent 20 but under 30; 29 per cent 30 but under 40; 13 per cent 40 but under 50; 6 per cent 50 but under 60; less than 1 per cent 60 and over, and 4 per cent did not report.

Of the females, 17 per cent were under 20 years of age; 34 per cent 20 but under 30; 25 per cent 30 but under 40; 14 per cent 40 but under 50; 5 per cent 50 but under 60; less than 1 per cent 60 and over, and 4 per cent did not report.

The two periods 20 to 30 and 30 to 40 of males embrace 8,955 persons, or over 61 per cent of the whole number. Of the females, the same periods embrace 6,365 persons, or about 60 per cent of the whole number.

TABLE VI.—*Age Periods of Applicants, by Classified Occupations.*

No.	Classification of Occupations.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not reported.
	Males	2,077	4,677	4,278	1,987	869	127	632
	North Side Office	355	672	741	440	244	10	229
	South Side Office	1,221	2,567	2,114	909	451	90	401
	West Side Office	501	1,438	1,423	638	174	27	2
	AGRICULTURAL:—	78	258	224	83	52	13	18
1	Farmers	6	21	28	27	10	.....	.....
2	Farm hands	72	217	178	51	42	13	18
3	Florists	.....	2	2	.....	.....	.....	.....
4	Gardeners	.....	14	10	3	.....	.....	.....
5	Stock farm hands	.....	4	6	2	.....	.....	.....
	CLERICAL:—	23	77	36	16	6	.....	2
1	Bookkeepers	6	26	15	8	2	.....	2
2	Clerks, bill	1	1	.....	.....	.....	.....	.....
3	Clerks, hotel	.....	6	5	4	1	.....	.....
4	Clerks, shipping	8	33	11	2	1	.....	.....
5	Copyists	1	2	1	.....	.....	.....	.....
6	Stenographers	7	9	4	.....	.....	.....	.....
7	Timekeepers	.....	.....	.....	2	2	.....	.....
	COMMERCIAL:—	264	286	141	69	24	4	14
1	Agents	.....	14	4	2	.....	.....	.....
2	Boys, cash	34	.....	.....	.....	.....	.....	.....
3	Boys, delivery	110	8	.....	.....	.....	.....	2
4	Canvassers	.....	5	4	2	2	1	.....
5	Cashiers	.....	.....	1	.....	.....	.....	.....
6	Checkers	1	3	.....	.....	1	.....	.....
7	Clerks, drug	.....	3	2	.....	.....	.....	.....
8	Clerks, dry goods	1	4	2	.....	.....	.....	.....
9	Clerks, grocery	1	7	3	1	1	.....	.....
10	Clerks, not classified	87	152	75	32	10	2	10
11	Collectors	.....	11	7	6	3	1	.....
12	Demonstrators	.....	.....	1	1	.....	.....	.....
13	Detectives	1	2	2	.....	.....	.....	.....

Table VI.—Continued.

No	Classification of Occupations.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not reported.
	COMMERCIAL—*Concluded.*							
14	Decorators	.....	.....	1	.....	.....	.....	.....
15	Peddlers (milk)	3	1	.....	.....	.....	.....	.....
16	Salesmen	15	56	27	19	4	.....	2
17	Solicitors	.....	2	5	4	1	.....	.....
18	Stockkeepers	1	.....	.....	1	.....	.....	.....
29	Ushers	.....	1	.....	.....	.....	.....	.....
20	Wholesale men	10	12	3	.....	2	.....	.....
21	Window dressers	.....	5	4	1	.....	.....	.....
	DOMESTIC SERVICE:—	239	564	505	432	216	58	189
1	Butlers	1	14	3	3	.....	.....	.....
2	Carpet layers	.....	.....	2	.....	.....	.....	.....
3	Chefs	.....	.....	3	.....	.....	.....	.....
4	Chippers	.....	1	.....	.....	.....	.....	.....
5	Cooks	4	82	121	58	7	3	22
6	Dishwashers	53	61	59	42	31	13	36
7	Housemen	61	129	143	130	129	38	40
8	Kitchenwork	17	26	24	30	32	4	29
9	Pantrymen	.....	3	.....	.....	.....	.....	.....
10	Porters	59	133	83	37	17	.....	41
11	Stewards	.....	.....	2	.....	.....	.....	.....
12	Waiters	44	115	65	32	.....	.....	21
	MANUAL LABOR:—	525	1,878	2,212	957	365	20	215
1	Brick packers	.....	9	4	.....	.....	.....	.....
2	Grain shovelers	4	14	16	6	2	.....	.....
3	Laborers	423	1,310	1,655	799	264	20	143
4	Laborers, railroad	98	545	537	152	99	.....	72
	PROFESSIONAL:—	2	11	18	6	2	.....	.....
1	Architects	.....	.....	1	.....	.....	.....	.....
2	Artists	1	2	2	1	.....	.....	.....
3	Draughtsmen	.....	.....	3	.....	.....	.....	.....
4	Druggists	.....	1	1	.....	.....	.....	.....
5	Nurses	1	7	7	4	2	.....	.....
6	Proofreaders	.....	.....	.....	1	.....	.....	.....
7	Teachers, music	.....	.....	1	.....	.....	.....	.....
8	Teachers, not stated	.....	1	2	.....	.....	.....	.....
9	Undertakers	.....	.....	1	.....	.....	.....	.....
	TRADES:—	118	708	498	207	53	4	50
1	Bakers	6	26	6	.....	.....	.....	9
2	Barbers	.....	3	5	2	.....	.....	.....
3	Bench hands	1	.....	.....	.....	.....	.....	.....
4	Bicycle workers	.....	4	4	1	.....	.....	.....
5	Blacksmiths	.....	16	17	7	3	1	2
6	Buffers	1	2	1	.....	.....	.....	.....
7	Boilermakers	.....	2	2	.....	.....	.....	.....
8	Bookbinders	.....	3	1	.....	.....	.....	.....
9	Boxmakers	.....	8	5	2	.....	.....	.....
10	Brass finishers	1	4	2	2	.....	.....	.....
11	Bricklayers	.....	3	2	1	.....	.....	.....
12	Bridge builders	.....	2	.....	.....	.....	.....	.....
13	Broommakers	.....	1	1	.....	.....	.....	.....
14	Brushmakers	.....	2	.....	.....	.....	.....	.....
15	Butchers	1	10	7	6	.....	.....	.....
16	Buttonhole makers	.....	.....	.....	.....	.....	.....	.....
17	Cabinetmakers	.....	2	6	1	.....	.....	.....
18	Calkers	.....	.....	.....	.....	.....	.....	.....
19	Calsominers	.....	9	2	1	.....	.....	.....
20	Candymakers	.....	1	.....	.....	.....	.....	.....
21	Car builders	.....	6	7	1	.....	.....	.....
22	Carpenters	2	103	76	38	11	1	2
23	Carriage trimmers	.....	1	.....	.....	.....	.....	.....
24	Cigarmakers	.....	2	1	.....	.....	.....	.....
25	Coal miners	.....	.....	.....	.....	.....	.....	.....

Table VI.—Continued.

No.	Classification of Occupations.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not reported.
	TRADES—*Concluded.*							
26	Compositors	.....	1	2	.....	.....	.....	.....
27	Coopers	.....	1	1	1	.....	.....	.....
28	Coremakers	1	.....	.....	.....	.....	.....	.....
29	Drill pressmen	2	5	1	.....	.....	.....	.....
30	Dyers	.....	.....	1	1	.....	.....	.....
31	Electricians	9	34	24	5	.....	.....	.....
32	Engineers	.....	54	60	25	9	1	.....
33	Engravers	.....	.....	.....	1	.....	.....	.....
34	Firemen	6	78	35	19	.....	.....	.....
35	Gasfitters	.....	2	1	1	1	.....	.....
36	Glassworkers	.....	1	.....	.....	.....	.....	.....
37	Hardwood finishers	.....	.....	2	.....	.....	.....	.....
38	Harnessmakers	.....	2	2	2	.....	.....	.....
39	Hatmakers	.....	.....	1	.....	.....	.....	.....
40	Horseshoers	.....	1	1	.....	.....	.....	.....
41	Ironworkers	.....	4	5	2	.....	.....	1
42	Lathe hands	1	6	.....	.....	.....	.....	.....
43	Lathers	.....	4	1	.....	.....	.....	.....
44	Laundrymen	2	10	4	.....	.....	.....	1
45	Linemen, electrical	.....	2	2	.....	.....	.....	.....
46	Locksmiths	.....	.....	.....	.....	1	.....	.....
47	Machine hands	30	42	6	3	.....	.....	2
48	Machinists	16	71	49	26	17	1	21
49	Masons	.....	2	2	.....	.....	.....	.....
50	Metal workers	.....	1	.....	.....	.....	.....	.....
51	Millwrights	.....	.....	3	.....	.....	.....	.....
52	Molders	1	15	18	3	2	.....	2
53	Nickelplaters	.....	1	.....	.....	.....	.....	.....
54	Packers	17	22	21	9	2	.....	5
55	Painters	6	33	28	20	4	.....	3
56	Paperhangers	.....	5	4	2	.....	.....	.....
57	Patternmakers	.....	2	2	.....	.....	.....	.....
58	Photographers	.....	4	1	.....	.....	.....	.....
59	Piano finishers	.....	1	.....	.....	.....	.....	.....
60	Piano makers	.....	.....	1	2	.....	.....	.....
61	Plasterers	.....	2	2	.....	.....	.....	.....
62	Plumbers	2	5	.....	.....	.....	.....	.....
63	Polishers, metal	.....	3	5	2	.....	.....	.....
64	Polishers, not stated	.....	6	4	.....	.....	.....	.....
65	Pressers	1	2	.....	.....	.....	.....	.....
66	Pressmen	.....	3	1	.....	.....	.....	.....
67	Printers	1	14	16	3	1	.....	.....
68	Punch press hands	2	3	.....	.....	.....	.....	.....
69	Roofers	.....	2	2	.....	.....	.....	.....
70	Sausage makers	.....	.....	.....	1	.....	.....	.....
71	Shoemakers	.....	5	3	3	.....	.....	.....
72	Steam fitters	.....	7	7	1	.....	.....	.....
73	Stone cutters	.....	.....	3	.....	.....	.....	.....
74	Stone masons	.....	3	2	1	.....	.....	.....
75	Tailors	2	5	3	2	1	.....	1
76	Tanners	.....	.....	.....	.....	1	.....	.....
77	Telegraphers	1	1	.....	.....	.....	.....	.....
78	Tile roofers	.....	.....	1	.....	.....	.....	.....
79	Tinsmiths	1	8	4	1	.....	.....	1
80	Toolmakers	1	2	2	1	.....	.....	.....
81	Trunkmakers	.....	.....	1	.....	.....	.....	.....
82	Upholsterers	1	12	3	1	.....	.....	.....
83	Vise hands	.....	5	.....	.....	.....	.....	.....
84	Wagonmakers	.....	.....	1	4	.....	.....	.....
85	Watchmakers	.....	.....	1	.....	.....	.....	.....
86	Weavers	.....	.....	.....	1	.....	.....	.....
87	Wood finishers	1	1	2	.....	.....	.....	.....
88	Wood workers	1	6	12	2	.....	.....	.....
	TRANSPORTATION:—	158	515	388	118	59	2	114
1	Baggagemen	.....	5	3	1	.....	.....	.....
2	Barnmen	24	105	106	26	20	.....	20
3	Brakemen	.....	2	2	.....	.....	.....	.....
4	Carriage and wagon washers	.....	9	10	.....	.....	.....	.....
5	Coachmen	7	47	47	7	2	.....	2
6	Conductors	.....	2	3	1	1	.....	.....
7	Drivers	20	42	15	1	.....	.....	.....
8	Elevatormen	28	50	24	3	1	1	.....

Table VI.—Continued.

Number	Classification of Occupations.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs and over.	Not reported.
	TRANSPORTATION.—*Concluded.*							
9	Freight house men	.....	1	.....	.....	.....	.....	.....
10	Hostlers	2	10	11	4	7	1	.....
11	Motormen	.....	1	4	.....	.....	.....	3
12	Switchmen	.....	2	.....	.....	.....	.....	.....
13	Teamsters	75	227	159	75	27	.....	89
14	Truckmen	2	12	4	.....	1	.....	.....
	MISCELLANEOUS:—	670	379	256	199	92	26	30
1	Any light work	.....	2	3	4	2	1	1
2	Apprentices	29	10	.....	.....	.....	.....	.....
3	Auctioneers	.....	.....	.....	.....	1	.....	.....
4	Bartenders	2	23	16	1	1	.....	.....
5	Bill posters	1	4	1	.....	.....	.....	.....
6	Blacksmith helpers	1	18	3	1	1	.....	.....
7	Boys, bell	75	11	.....	.....	.....	.....	.....
8	Boys, errand	134	.....	.....	.....	.....	.....	.....
9	Boys, office	201	12	.....	.....	.....	.....	.....
10	Cleaners, harness or paint	.....	3	1	2	.....	.....	.....
11	Coal heavers	.....	.....	2	.....	.....	.....	.....
12	Companions	.....	.....	1	.....	.....	.....	.....
13	Employés, general store	.....	.....	2	2	.....	.....	.....
14	Employés, jobbing house	.....	1	1	.....	.....	.....	.....
15	Employés, wholesale house	1	3	3	.....	.....	.....	.....
16	Factory hands	194	116	50	40	12	1	.....
17	Foremen	.....	.....	2	2	1	1	.....
18	Foundrymen	.....	3	3	2	.....	.....	.....
19	Furnace tenders	.....	.....	3	1	.....	1	.....
20	Horseshoers' helpers	.....	2	1	.....	.....	.....	.....
21	Horse trainers	.....	1	.....	.....	.....	.....	.....
22	Ice helpers	.....	2	3	.....	.....	.....	.....
23	Janitors	4	83	95	91	40	12	14
24	Models	1	1	.....	.....	1	.....	.....
25	Molders' helpers	1	2	1	.....	.....	.....	.....
26	Office help	9	12	10	7	5	.....	.....
27	Oilers	.....	2	.....	.....	.....	.....	.....
28	Operators	.....	1	.....	.....	.....	.....	.....
29	Orderlies	.....	2	2	.....	.....	.....	.....
30	Piano tuners	.....	.....	1	.....	.....	.....	.....
31	Rodmen	.....	.....	1	.....	.....	.....	.....
32	Sailors	.....	2	.....	.....	.....	.....	.....
33	Screw machine hands	2	3	1	.....	.....	.....	.....
34	Stovemen	.....	1	1	.....	.....	.....	.....
35	Watchmen	.....	8	23	41	27	10	13
36	Window washers	13	42	19	1	1	.....	2
37	Yardmen	2	9	7	4	.....	.....	.....
	Females	1,759	3,675	2,690	1,506	505	45	470
	North Side Office	625	1,272	647	306	75	2	.....
	South Side Office	681	1,553	1,527	949	359	25	399
	West Side Office	453	850	516	251	71	18	71
	CLERICAL:—	61	59	16	5	.....	.....	4
1	Bookkeepers	2	3	2	1	.....	.....	.....
2	Copyists	.....	1	.....	.....	.....	.....	.....
3	Office work	32	28	14	4	.....	.....	2
4	Stenographers	27	27	.....	.....	.....	.....	2

Table VI.—Continued.

No.	Classification of Occupations.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not reported.
	COMMERCIAL:—	27	62	22	7	.....	.....	2
1	Agents	.....	1	1	.....	.....	.....	.....
2	Canvassers	.....	2	2	3	.....	.....	1
3	Cash girls	1	.....	.....	.....	.....	.....	.....
4	Cashiers	2	16	6	1	.....	.....	.....
5	Clerks	23	25	6	2	.....	.....	1
6	Demonstrators	.....	9	3	.....	.....	.....	.....
7	Markers (laundry)	.....	.....	.....	.....	.....	.....	.....
8	Saleswomen	1	8	3	.....	.....	.....	.....
9	Solicitors	.....	1	1	1	.....	.....	.....
	DOMESTIC SERVICE:—	1,387	3,354	2,575	1,429	495	43	447
1	Chambermaids	108	253	142	57	8	.....	66
2	Cooks	21	289	358	187	69	8	51
3	Day workers	1	50	229	128	77	4	29
4	Diningroom help	86	133	5	2	.....	.....	6
5	Dishwashers	43	93	110	127	92	14	34
6	Domestics	192	395	161	62	21	11	.....
7	General housework	285	724	167	32	15	.....	.....
8	Hotel help	.....	1	.....	.....	.....	.....	.....
9	Housekeepers	.....	32	97	111	18	.....	21
10	Housework	201	621	693	417	90	3	143
11	Kitchen help	32	111	234	156	63	2	39
12	Laundresses	17	79	86	48	15	.....	7
13	Matrons	.....	.....	2	.....	.....	.....	.....
14	Pantry work	22	53	51	3	.....	1	1
15	Paint cleaners	.....	.....	1	1	.....	.....	.....
16	Reception service	1	4	1	.....	.....	.....	.....
17	Scrub women	3	58	85	70	27	.....	25
18	Second work	131	153	52	2	.....	.....	4
19	Tray girls	.....	1	.....	.....	.....	.....	.....
20	Waitresses	244	304	101	26	.....	.....	21
	PERSONAL SERVICE:—	3	12	3	1	.....	.....	2
1	Attendants	1	3	1	1	.....	.....	1
2	Companions	1	7	2	.....	.....	.....	1
3	Lady's maid	1	2	.....	.....	.....	.....	.....
	PROFESSIONAL:—	90	60	35	42	10	1	7
1	Governesses	1	.....	.....	1	.....	.....	1
2	Nurses	89	60	35	41	10	1	6
	TRADES:—	7	40	25	18	.....	1	2
1	Bakers	.....	.....	.....	.....	.....	.....	1
2	Dressmakers	.....	2	1	.....	.....	.....	.....
3	Milliners	1	.....	.....	.....	.....	.....	.....
4	Photographers	.....	1	.....	.....	.....	.....	.....
5	Seamstresses	6	37	24	18	.....	1	1
	MISCELLANEOUS:—	184	88	14	4	.....	.....	6
1	Designers	1	.....	.....	.....	.....	.....	.....
2	Factory work	179	84	11	3	.....	.....	6
3	Janitresses	.....	1	3	1	.....	.....	.....
4	Models	.....	1	.....	.....	.....	.....	.....
5	Bindery girls	4	2	.....	.....	.....	.....	.....

Table VII is a summary of the foregoing table and presents results in a compact form. It will be noted that of the 198 occupations of males, 88 are classed as "Trades"; and of the 52 occupations for females, 20 are grouped under "Domestic Service."

TABLE VII.—*Summary of Age Periods of Applicants by Classified Occupations.*

Sex and Classes of Occupations.	Number of occupations in each class.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not reported.
Males	198	2,077	4,677	4,278	1,987	869	127	632
Percentages	.....	14.18	31.93	29.21	13.57	5.93	.87	4.31
Agricultural	5	78	258	224	83	52	13	18
Clerical	7	23	77	36	16	6	.....	2
Commercial	22	264	286	141	69	24	4	14
Domestic service	12	239	564	505	332	216	58	189
Manual labor	4	525	1,878	2,212	957	365	20	215
Professional	9	2	11	18	6	2	.....	.....
Trades	88	118	708	498	207	53	4	50
Transportation	14	158	515	388	118	59	2	114
Miscellaneous	37	670	379	256	199	92	26	30
Females	52	1,759	3,675	2,690	1,506	505	45	470
Percentages	.....	16.52	34.51	25.26	14.14	4.74	.42	4.41
Clerical	4	61	59	16	5	.....	.....	4
Commercial	9	27	62	22	7	.....	.....	2
Domestic service	20	1,387	3,354	2,575	1,429	495	43	447
Personal service	3	3	12	3	1	.....	.....	2
Professional	2	90	60	35	42	10	1	7
Trades	7	7	40	25	18	.....	1	2
Miscellaneous	7	184	88	14	4	.....	.....	6

CONGUGAL RELATIONS.

Table VIII shows the conjugal relations of the applicants, number of dependent children, number of members of trade unions, average number of days idle, and number willing to go out of the city to work.

Of the 14,647 males, 4,486 were married, with 6,107 children dependent upon them; 630 were members of trade unions, and the

14,647 males reported an aggregate of 265,883 days time lost, an average of 18 days each; 9,304 were willing to go out of the city to work.

Of the 10,650 females 3,111 were married, with 1,968 children dependent upon them; they reported 83,484 days time lost, an average of 8 days each, and 1,782 were willing to go out of the city to work.

TABLE VIII—*Congugal Conditions, Members of Trades Unions, Days Idle, and Number Willing to Accept Employment Out of City.*

Number.	Classification of Occupations.	Conjugal Conditions.			Number members trade unions.	Average days idle.	Number willing to work out of city.
		Number married.	Number single	Number of dependent children.			
	Males.....14,647	4,486	10,161	6,107	630	18	9,304
	AGRICULTURAL:—	97	629	44	.....	10	653
1	Farmers	27	65	9	.....	11	42
2	Farm hands	52	539	16	.....	9	578
3	Florists	3	1	2	.....	24	2
4	Gardeners	10	17	4	.....	10	19
5	Stock farm hands	5	7	13	.....	17	12
	CLERICAL:—	51	109	42	1	25	87
1	Bookkeepers	27	32	24	.....	15	33
2	Clerks, bill	.....	2	.....	.....	3	1
3	Clerks, hotel	4	12	5	1	44	12
4	Clerks, shipping	12	43	9	.....	36	26
5	Copyists	1	3	3	.....	8	2
6	Stenographers	4	16	1	.....	18	11
7	Time keepers	3	1	.....	.....	10	2
	COMMERCIAL:—	192	607	203	3	24	318
1	Agents	6	14	4	.....	50	15
2	Boys, cash	.....	34	.....	.....	4	2
3	Boys, delivery	.....	120	.....	.....	9	4
4	Canvassers	3	11	2	.....	11	10
5	Cashiers	1	.....	3	.....	20	.....
6	Checkers	2	3	2	.....	23	1
7	Clerks, drug	1	4	2	.....	13	2
8	Clerks, dry goods	2	5	3	.....	11	4
9	Clerks, grocery	4	9	11	.....	8	7
10	Clerks, not classified	93	275	83	3	23	148
11	Collectors	13	15	30	.....	78	15
12	Demonstrators	1	1	1	.....	5	2
13	Detectives	5	.....	.....	.....	.....	.....
14	Decorators	.....	1	.....	.....	7	1
15	Peddlers, milk	1	3	1	.....	40	2
16	Salesmen	46	74	50	.....	42	81
17	Solicitors	4	8	.....	.....	4	7
18	Stockkeepers	1	1	.....	.....	4	.....
19	Ushers	1	.....	2	.....	14	1
20	Wholesale men	6	21	4	.....	34	10
21	Window dressers	2	8	5	.....	5	6

Table VIII—Continued.

Number.	Classification of Occupations.	Conjugal Conditions.			Number members trade unions.	Average days idle.	Number willing to work out of city.
		Number married.	Number single	Number of dependent children.			
	Domestic Service:—	469	1,634	254	68	8	1,277
1	Butlers	6	15	7	.....	10	12
2	Carpet layers	2	.....	1	.....	46	1
3	Chefs	1	2	4	.....	24	.....
4	Chippers	1	.....	.....	.....	.....	.....
5	Cooks	112	185	58	25	14	201
6	Dishwashers	24	271	6	.....	4	196
7	Housemen	146	524	37	5	7	381
8	Kitchen work	41	121	14	.....	8	98
9	Pantry men	1	2	.....	.....	4	1
10	Porters	79	291	62	4	11	174
11	Stewards	2	.....	.....	.....	25	.....
12	Waiters	54	223	65	34	5	213
	Manual Labor:—	2,057	4,115	4,029	26	14	4,742
1	Brick packers	2	11	2	.....	22	10
2	Grain shovelers	9	33	16	.....	22	34
3	Laborers	1,777	2,837	3,264	26	15	3,218
4	Laborers, railroad	269	1,234	747	.....	8	1,480
	Professional:—	11	28	8	.....	16	21
1	Architects	1	.....	2	.....	13	1
2	Artists	2	4	1	.....	16	3
3	Draughtsmen	3	.....	2	.....	9	1
4	Druggists	1	1	.....	.....	61	2
5	Nurses	1	20	.....	.....	7	13
6	Proofreaders	1	.....	3	.....	30	.....
7	Teachers, music	.....	1	.....	.....	1	1
8	Teachers, not stated	1	2	.....	.....	54	.....
9	Undertakers	1	.....	.....	.....	.....	.....
	Trades:—	737	902	758	402	25	838
1	Bakers	6	41	2	4	7	26
3	Barbers	4	6	1	.....	4	2
3	Bench hands	1	.....	.....	.....	.....	.....
4	Bicycle workers	4	5	5	1	7	5
5	Blacksmiths	24	22	13	1	5	20
6	Buffers	.....	4	.....	1	28	.....
7	Boiler makers	3	1	2	1	4	2
8	Bookbinders	2	2	.....	.....	68	1
9	Boxmakers	4	11	5	6	4	7
10	Brassfinishers	5	5	3	.....	51	4
11	Bricklayers	2	4	5	4	6	5
12	Bridge builders	.....	2	.....	.....	22	.....
13	Broommakers	1	1	.....	.....	4	.....
14	Brushmakers	2	.....	3	1	6	.....
15	Butchers	9	15	14	2	13	9
16	Buttonhole makers	.....	.....	.....	.....	.....	.....
17	Cabinet makers	6	3	1	1	7	3
18	Calkers	.....	.....	.....	.....	.....	.....
19	Calsominers	4	8	8	.....	5	4
20	Candymakers	1	.....	.....	.....	.....	.....
21	Car builders	6	8	12	1	4	5
22	Carpenters	130	103	116	72	9	110
23	Carriage trimmers	1	.....	.....	.....	.....	.....
24	Cigarmakers	1	2	.....	1	2	2
25	Coal miners	.....	.....	.....	.....	.....	.....
26	Compositors	1	2	4	.....	59	2
27	Coopers	1	1	1	1	7	2
28	Coremakers	.....	1	.....	.....	28	1
29	Drill pressmen	.....	8	.....	.....	35	3

Table VIII.—Continued.

Number.	Classification of Occupations.	Conjugal Conditions.			Number members trade unions.	Average days idle.	Number willing to work out of city.
		Number married.	Number single	Number of dependent children.			
	Trades—*Continued.*						
30	Dyers	2	.....	3	.....	29	.....
31	Electricians	17	55	20	14	32	56
32	Engineers	97	52	123	48	49	100
33	Engravers	1	.....	.....	.....	5	.....
34	Firemen	54	84	36	35	52	82
35	Gasfitters	3	2	10	2	12	3
36	Glassworkers	1	.....	.....	.....	.....	.....
37	Hardwood finishers	1	1	1	1	23	2
38	Harnessmakers	4	2	9	.....	11	2
39	Hatmakers	1	.....	.....	.....	19	.....
40	Horseshoers	.....	2	.....	1	5	1
41	Iron workers	5	7	2	2	39	5
42	Lathe hands	.....	7	.....	.....	21	3
43	Lathers	1	4	.....	2	17	1
44	Laundrymen	5	12	9	.....	11	15
45	Linemen, electrical	1	3	.....	2	6	4
46	Locksmiths	1	.....	.....	.....	3	.....
47	Machine hands	11	72	27	.....	15	31
48	Machinists	100	101	94	99	29	98
49	Masons	2	2	.....	2	4	.....
50	Metal workers	.....	1	.....	1	7	.....
51	Millwrights	3	.....	6	.....	17	2
52	Molders	19	22	28	13	41	25
53	Nickel platers	1	.....	.....	.....	.....	.....
54	Packers	24	52	17	.....	24	40
55	Painters	48	46	79	37	41	59
56	Paperhangers	8	3	11	4	24	5
57	Patternmakers	3	1	4	1	13	2
58	Photographers	1	4	.....	.....	12	5
59	Piano finishers	1	.....	.....	.....	14	.....
60	Piano makers	2	1	.....	1	30	.....
61	Plasterers	1	3	3	3	5	.....
62	Plumbers	.....	7	.....	1	66	4
63	Polishers, metal	6	4	5	2	30	4
64	Polishers, not stated	6	4	3	1	40	1
65	Pressers	.....	4	.....	.....	12	3
66	Pressmen	1	3	.....	2	18	.....
67	Printers	18	17	5	9	16	17
68	Punch press hands	1	4	1	.....	49	2
69	Roofers	2	2	3	1	4	1
70	Sausagemakers	1	.....	.....	.....	2	.....
71	Shoemakers	6	5	7	4	7	4
72	Steamfitters	11	4	19	7	75	7
73	Stonecutters	2	1	1	1	4	3
74	Stonemasons	3	3	1	3	3	4
75	Tailors	7	7	17	.....	3	8
76	Tanners	1	.....	.....	.....	30	.....
77	Telegraphers	1	1	.....	.....	7	1
78	Tile roofers	1	.....	.....	.....	5	.....
79	Tinsmiths	6	9	.....	1	6	2
80	Toolmakers	3	3	1	.....	5	2
81	Trunkmakers	.....	1	.....	.....	4	1
82	Upholsterers	8	9	2	.....	10	7
83	Vise hands	1	4	2	1	6	1
84	Wagonmakers	4	1	.....	.....	1	.....
85	Watchmakers	1	.....	.....	.....	22	.....
86	Weavers	1	.....	.....	.....	.....	.....
87	Wood finishers	2	2	3	.....	13	1
88	Woodworkers	8	13	11	4	16	11
	Transportation:—	452	902	345	127	28	707
1	Baggagemen	1	8	.....	.....	4	3
2	Barnmen	100	201	48	.....	5	158
3	Brakemen	1	3	.....	.....	14	1
4	Carriage and wagon washers	3	16	2	.....	10	11

Table VIII.—Continued.

Number.	Classification of Occupations.	Conjugal Conditions.			Number memb'rs tr'de unions.	Average days idle.	Number willing to work out of city.
		Number married.	Number single	Number of dependent children.			
	TRANSPORTATION—*Concluded.*						
5	Coachmen	53	59	47	.....	12	55
6	Conductors	7	.....	12	.....	8	.....
7	Drivers	24	54	12	12	22	28
8	Elevatormen	19	88	13	.....	34	42
9	Freighthousemen	.....	1	.....	.....	42	.....
10	Hostlers	6	29	4	.....	21	14
11	Motormen	7	1	.....	.....	1	1
12	Switchmen	2	.....	.....	.....	.....	.....
13	Teamsters	224	428	198	115	43	384
14	Truckmen	5	14	9	.....	19	10
	MISCELLANEOUS:—	420	1,235	424	3	33	661
1	Any light work	3	9	1	.....	8	9
2	Apprentices	.....	39	.....	.....	51	14
3	Auctioneers	1	.....	.....	.....	.....	1
4	Bartenders	19	24	26	.....	29	33
5	Bill posters	.....	6	.....	.....	3	3
6	Blacksmith helpers	9	15	4	.....	4	13
7	Boys, bell	.....	86	.....	.....	5	26
8	Boys, errand	.....	134	.....	.....	3	1
9	Boys, office	.....	213	.....	.....	21	60
10	Cleaners harness or paint	2	4	.....	.....	14	3
11	Coal heavers	.....	2	.....	.....	42	2
12	Companions	.....	2	.....	.....	12	2
13	Employés, general store	2	2	3	.....	15	3
14	Employés, jobbing house	.....	2	.....	.....	9	.....
15	Employés, wholesale house	4	3	7	.....	21	2
16	Factory hands	83	330	81	1	33	145
17	Foremen	5	4	7	.....	74	4
18	Foundrymen	5	3	2	.....	17	5
19	Furnace tenders	1	4	2	.....	32	4
20	Horseshoers' helpers	.....	3	.....	.....	4	1
21	Horse trainers	.....	1	.....	.....	7	1
22	Ice helpers	.....	5	.....	.....	10	5
23	Janitors	172	167	159	.....	45	168
24	Models	.....	3	.....	.....	2	.....
25	Molders' helpers	.....	4	.....	.....	3	4
26	Office help	20	23	9	.....	21	28
27	Oilers	.....	2	.....	.....	12	2
28	Operators	1	.....	.....	.....	.....	.....
29	Orderlies	1	3	3	.....	8	2
30	Piano tuners	1	.....	.....	.....	7	.....
31	Rodmen	.....	1	2	.....	90	1
32	Sailors	.....	2	.....	1	6	2
33	Screw machine hands	1	5	2	.....	48	3
34	Stovemen	2	.....	1	.....	7	.....
35	Watchmen	72	50	99	1	107	61
36	Window washers	16	62	16	.....	7	46
37	Yardmen	.....	22	.....	.....	6	7
	Females 10,650	3,111	7,539	1,968	1	8	1,782
	CLERICAL:—	25	120	20	.....	14	31
1	Bookkeepers	2	6	1	.....	25	.....
2	Copyists	.....	1	.....	.....	4	.....
3	Office work	17	63	12	.....	16	21
4	Stenographers	6	50	7	.....	11	10

Table VIII—Continued.

Number.	Classification of Occupations.	Conjugal Conditions.			Number memb'rs tr'de unions.	Average days idle.	Number willing to work out of city.
		Number married.	Number single	Number of dependent children.			
	COMMERCIAL:—	40	79	18	.....	16	28
1	Agents	.....	2	.....	.....	7	2
2	Canvassers	3	2	5	.....	20	.....
3	Cash girls	.....	1	.....	.....	14	1
4	Cashiers	9	16	.....	.....	6	4
5	Clerks	12	45	2	.....	23	10
6	Demonstrators	8	3	.....	.....	5	.....
7	Markers (laundry)	.....	.....	.....	.....	.....	.....
8	Saleswomen	4	8	11	.....	12	9
9	Solicitors	1	2	.....	.....	2	2
	DOMESTIC SERVICE:—	2,902	6,829	1,880	.....	8	1,618
1	Chambermaids	117	517	14	.....	4	104
2	Cooks	374	609	256	.....	8	261
3	Day workers	371	147	368	.....	16	8
4	Diningroom help	42	190	2	.....	4	22
5	Dishwashers	172	341	207	.....	5	113
6	Domestics	178	664	93	.....	10	105
7	General housework	252	971	24	.....	3	168
8	Hotel help	1	.....	.....	.....	.....	1
9	Housekeepers	114	165	42	.....	9	128
10	Housework	572	1,596	398	.....	13	319
11	Kitchen help	214	423	151	.....	2	105
12	Laundresses	111	141	98	.....	8	38
13	Matrons	2	.....	3	.....	.....	1
14	Paint cleaners	2	.....	2	.....	3	.....
15	Pantry work	41	90	8	.....	10	16
16	Reception service	.....	7	.....	.....	.....	1
17	Scrub women	88	180	117	.....	3	1
18	Second work	18	324	15	.....	4	35
19	Tray girls	.....	1	.....	.....	.....	.....
20	Waitresses	233	463	82	.....	3	192
	PERSONAL SERVICE:—	5	15	2	.....	13	10
1	Attendants	2	5	2	.....	14	1
2	Companions	3	8	.....	.....	11	7
3	Lady's maid	.....	2	.....	.....	19	2
	PROFESSIONAL:—	68	177	11	.....	7	59
1	Governesses	2	1	.....	.....	.....	1
2	Nurses	66	176	11	.....	7	58
	TRADES:—	37	56	26	.....	5	16
1	Bakers	1	.....	1	.....	.....	1
2	Dressmakers	1	2	1	.....	10	1
3	Milliners	.....	1	.....	.....	30	1
4	Photographers	1	.....	.....	.....	21	1
5	Seamstresses	34	53	24	.....	4	12
	MISCELLANEOUS:—	34	263	11	1	7	20
1	Bindery girls	6	.....	.....	1	4	.....
2	Designers	.....	1	.....	.....	1	.....
3	Factory work	23	260	5	.....	13	19
4	Janitresses	5	.....	6	.....	.....	.....
5	Models	.....	1	.....	.....	2	.....
6	Painter's sketch	.....	1	.....	.....	33	1

Table IX is a summary of the foregoing table and shows the percentages under each heading for both males and females. Both divisions considered together, the dependent children average about two to each head of family, male or female. The number of applicants who are members of trade unions is nearly double what it was last year, though the total number of applicants for work is less, indicating a growing appreciation by trades people of the advantages offered by the free employment offices.

TABKE IX.—*Summary of the Conjugal Conditions, Members of Trade Unions, Days Idle and Number Willing to Accept Work Out of City, with Percentages.*

Occupations.		Conjugal Conditions.			No. members of trade unions.	Total and average No. days idle.	No. willing to accept work out of city.
Sex and Classification of Occupation.	Number of occupations in each class.	No. married.	No. single.	No. dependent children.			
Males.....14,647	198	4,486	10,161	6,107	630	265,883	9,304
Percentages and averages.....	.....	30.63	69.37	1⅔ each	4.30	18	63.52
Agricultural.....	5	97	629	44	.....	10	653
Clerical.....	7	51	109	42	1	25	87
Commercial.....	21	192	607	203	3	24	318
Domestic service.....	12	469	1,634	254	68	8	1,277
Manual labor.....	4	2,057	4,115	4,029	26	14	4,742
Professional.....	9	11	18	8	.....	16	21
Trades.....	88	737	902	758	402	25	838
Transportation.....	14	452	902	345	127	28	707
Miscellaneous.....	37	420	1,235	424	3	33	661
Females.....10,650	52	3,111	7,539	1,968	1	83,484	1,782
Percentages and averages.....	.....	29.21	70.79	⅔ each	.....	8	16.73
Clerical.....	4	25	120	20	.....	14	31
Commercial.....	9	40	79	18	.....	16	28
Domestic service.....	20	2,902	6,829	1,880	.....	8	1,618
Personal service.....	3	5	15	2	.....	13	10
Professional.....	2	68	177	11	.....	7	59
Trades.....	7	37	56	26	.....	5	16
Miscellaneous.....	7	34	263	11	1	7	20

AVERAGE WAGES PAID.

Table X shows the average wages paid to applicants furnished employment by the three Chicago offices during the past fiscal year. A comparison with the scale published last year indicates substantial advances in some of the more important industries.

TABLE X.—*Average Wages Paid to Applicants Furnished Employment by the Three Chicago Offices.*

CHARACTER OF OCCUPATIONS.	AVERAGE WAGES.		
	Per day.	Per week.	Per month.
Males.			
Agents	Commission.		
Any light work		$8 00 to $10 00	
Apprentices		3 00 to 5 00	
Architects			$75 00
Artists		15 00	
Auctioneers		20 00	
Baggagemen			50 00
Bakers	$2 00	8 00 to 14 00	
Barnmen			15 00 to 30 00
Bartenders		6 00 to 12 00	25 00
Bill posters	2 00		
Bicycle workers		12 00 to 15 00	
Blacksmiths	2 50 to 3 00		
Blacksmiths' helpers	1 75 to 2 00		
Boilermakers	3 00		
Bookbinders		18 00	
Bookkeepers			40 00 to 60 00
Boxmakers		10 00 to 12 00	
Boys, bell			*12 00 to 15 00
Boys, cash		3 00 to 3 50	
Boys, delivery		4 00 to 4 50	
Boys, errand		3 00 to 4 50	
Boys, office		3 00 to 5 00	
Brakemen			40 00
Brass finishers	3 00		
Bricklayers	4 00		
Broommakers	2 25		
Brushmakers	2 25		
Butchers		10 00 to 12 00	
Butlers			*25 00 to 40 00
Cabinetmakers	3 00		
Carpet layers		15 00	
Calciminers	2 80		
Canvassers	Commission.		
Car builders	2 25 to 2 50		
Carpenters	3 00 to 4 00		
Carriage washers			*25 00 to 30 00
Cashiers		15 00	
Chefs			*50 00 to 75 00
Cigarmakers		18 00	
Cleaners, harness			*25 00
Cleaners, paint	1 50		
Clerks, bill		8 00 to 10 00	
Clerks, drug		10 00 to 14 00	
Clerks, dry goods		9 00 to 12 00	
Clerks, grocery		10 00 to 12 00	
Clerks, hotel			*40 00 to 50 00
Clerks, shipping		10 00 to 14 00	
Clerks and salesmen		12 00 to 15 00	
Clerks, not stated		9 00 to 12 00	
Coachmen			*30 00 to 45 00
Collectors		10 00 to 12 00	
Companions			*50 00
Compositors	4 00		
Cooks		6 00 to 15 00	40 00 to 60 00
Coopers	2 50		
Copyists		8 00 to 10 00	
Demonstrators		10 00 to 12 00	
Dishwashers		*4 00 to 6 00	*15 00 to 20 00

—C C.

Table X—Continued.

Character of Occupations.	Average Wages.		
	Per day.	Per week.	Per month.
Draughtsmen			$60 00
Drill pressmen	$2 00		
Drivers, express		$10 00	
Druggists			60 00
Dyers		12 00 to 15 00	
Electricians	3 00 to 3 50		
Elevator men		10 00 to 15 00	
Employés, general store		8 00 to 10 00	
Employés, wholesale house		8 00 to 10 00	
Engineers			50 00 to 60 00
Engravers		20 00	
Factory hands		7 00 to 12 00	
Farmers			60 00 to 75 00
Farm hands			18 00 to 22 00
Firemen	2 00	12 00 to 15 00	40 00 to 50 00
Florists			*60 00
Foremen			75 00 to 100 00
Foundrymen	2 00		
Gardeners			40 00 to 50 00
Gasfitters	3 50		
Grain shovelers	2 00		
Harnessmakers	2 50 to 3 00		
Hatmakers		15 00	
Hardwood finishers	3 00		
Horseshoers	3 50		
Horseshoers' helpers	1 75		
Hostlers			*25 00 to 35 00
Housemen		4 00 to 6 00	*15 00 to 25 00
Iron workers	3 50 to 4 00		
Janitors		8 00 to 12 00	40 00 to 75 00
Kitchen work		*5 00 to 7 00	*20 00 to 25 00
Laborers	1 50 to 2 00		
Laborers, railroad	1 75 to 2 25		
Lathers	3 00		
Laundrymen		10 00 to 12 00	
Linemen, electrical	2 50		
Locksmiths		12 00	
Machine hands	1 25 to 1 50		
Machinists	2 75 to 3 00		
Masons	4 00		
Millwrights	3 50		
Molders	3 00		
Molders' helpers	1 50 to 1 75		
Models			25c an hour
Motormen	2 00		
Nurses		10 00 to 15 00	
Office help		10 00 to 12 00	
Oilers	2 00		
Orderlies			*30 00 to 40 00
Packers		10 00 to 12 00	
Painters	2 50 to 3 00		
Paper hangers	3 00		
Pantrymen			*25 00 to 35 00
Patternmakers	3 00 to 3 50		
Piano finishers	3 00		
Piano tuners	3 00 to 3 50		
Plasterers	3 50 to 4 00		
Plumbers	4 00		
Polishers, metal	2 25		
Polishers, not stated	1 75		
Porters		7 00 to 10 00	*15 00 to 25 00
Proofreaders		18 00	
Pressmen		16 00 to 18 00	
Printers		18 00 to 21 00	
Roofers	3 00		
Sailors	1 75		
Salesmen		10 00 to 15 00	
Sausage makers	3 00		
Shoemakers	2 50		
Solicitors	Commission.		
Steamfitters	4 00		
Stenographers		10 00 to 15 00	
Stewards			*50 00
Stockfarm hands			*20 00 to 30 00
Stock keepers		12 00	

Table X.—Concluded.

Character of Occupations.	Average Wages.		
	Per day.	Per week.	Per month.
Stone cutters	3 50		
Stone masons	4 00		
Tailors		15 00 to 18 00	
Teachers, music	50c to 1 00 per hr.		
Teachers, not stated			50 00 to 70 00
Teamsters		10 00 to 14 00	
Telegraphers			60 00
Tile roofers	3 00		
Time keepers		12 00 to 15 00	
Tinsmiths	3 00		
Toolmakers	2 00 to 3 50		
Truckman	1 75		
Trunkmakers	2 50		
Upholster	2 50		
Vise hands	1 50		
Wagonmakers	3 00		
Waiters		*6 00 to 10 00	*20 00 to 30 00
Watchmakers		15 00	
Watchmen			40 00 to 60 00
Weavers	2 00		
Window dressers		15 00 to 25 00	
Window washers	2 00		
Wood finishers	2 50		
Wood workers	2 50 to 3 00		
Yardmen			*20 00 to 30 00
Females.			
Agents	Commission.		
Bookkeepers		7 00 to 12 00	
Bindery girls		5 00 to 8 00	
Cashiers		7 00 to 10 00	
Clerks		7 00 to 12 00	
Chambermaids		*3 00 to 4 50	
Companions		*5 00 to 9 00	
Cooks		5 00 to 15 00	
Copyist		6 00 to 8 00	
Day workers	1 25 to 1 75		
Demonstrators		10 00	
Dish washers		4 00 to 6 00	15 00 to 20 00
Factory work		4 00 to 6 00	
Housekeepers		*3 00 to 6 00	
Housework		*3 00 to 6 00	
Janitress			40 00
Kitchen help		4 00 to 6 00	
Lady's maid			*25 00 to 30 00
Laundresses		5 00 to 7 00	
Models			25c an hour
Nurses		6 00 to 12 00	
Office work		6 00 to 10 00	
Painters, sketch		10 00	
Pantry work		4 00 to 6 00	
Reception service		6 00 to 10 00	
Saleswomen		7 00 to 12 00	
Scrub women	1 50		
Seamstresses	1 25 to 2 00		
Second work		3 00 to 5 00	
Stenographers		6 00 to 14 00	
Solicitors	Commission.		
Waitresses		4 00 to 7 00	

*With board.

NATIONALITY

Table XI shows the nationality of all applicants for employment. tering as Americans largely predominating, furnishing over 45 per and Italians pushing closely for the third place. The English and cent of the whole number.

Among the females 31 per cent register as Americans, 20 per cent per cent. The Italians are only one-fifth of 1 per cent.

TABLE XI.—*Nationality of all*

Number.	Classification of Occupations.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	Males	6,690	115	128	255	182	547	122	2,252
1	North Side office	1,240	20	10	22	23	79	14	589
2	South Side office	3,694	79	71	194	111	384	94	1,205
3	West Side office	1,756	16	47	39	48	84	14	458
	AGRICULTURAL:—	265	1	4	25	21	45	.....	107
1	Farmers	51	.....	1	.....	4	8	.....	12
2	Farm hands	196	1	3	25	17	33	.....	84
3	Florists	1	.....	.....	.....	.....	.....	.....	1
4	Gardeners	10	.....	.....	.....	.....	2	.....	9
5	Stock farm hands	7	.....	.....	.....	.....	2	.....	1
	CLERICAL:—	97	.....	2	2	3	13	1	13
1	Bookkeepers	29	.....	1	1	.....	5	1	5
2	Clerks, bill	12	.....	.....	.....	.....	1	.....	1
3	Clerks, hotel	14	.....	.....	.....	1	2	.....	.....
4	Clerks, shipping	25	.....	1	1	2	2	.....	5
5	Copyists	2	.....	.....	.....	.....	1	.....	.....
6	Stenographers	11	.....	.....	.....	.....	2	.....	2
7	Timekeepers	4	.....	.....	.....	.....	.....	.....	.....
	COMMERCIAL:—	439	3	5	18	2	44	5	113
1	Agents	11	.....	.....	1	.....	3	.....	3
2	Boys, cash	16	.....	2	.....	.....	2	.....	5
3	Boys, delivery	73	.....	.....	4	.....	5	.....	33
4	Canvassers	7	.....	.....	1	.....	1	.....	2
5	Cashiers	1	.....	.....	.....	.....	.....	.....	.....
6	Checkers	2	.....	.....	.....	.....	2	.....	.....
7	Clerks, drug	7	1	.....	.....	.....	2	.....	6
8	Clerks, dry goods	43	.....	.....	1	.....	6	.....	4
9	Clerks, grocery	34	.....	.....	2	.....	2	.....	9
10	Clerks, not classified	107	.....	2	5	.....	9	3	26
11	Collectors	16	.....	.....	1	.....	.....	.....	4
12	Demonstrators	2	.....	.....	.....	.....	.....	.....	.....
13	Detectives	2	.....	.....	.....	.....	.....	.....	1
14	Decorators	.....	.....	.....	.....	.....	.....	.....	.....
15	Peddlers (milk)	.....	.....	.....	.....	.....	1	.....	2
16	Salesmen	85	2	1	2	2	5	.....	13
17	Solicitors	7	.....	.....	.....	.....	2	.....	2
18	Stockkeepers	1	.....	.....	.....	.....	.....	.....	.....
19	Ushers	1	.....	.....	.....	.....	.....	.....	.....
20	Wholesalemen	17	.....	.....	1	.....	3	.....	3
21	Window dressers	6	.....	.....	.....	.....	1	2	.....

OF APPLICANTS.

Among the males eighteen nationalities are represented, those regis-
cent of the whole number. The Germans come next, with the Irish
the Swedes are substantially the same, each furnishing about 4 per

as Irish, 15 per cent as German, English 6 per cent and Swedes 5

Applicants for Employment.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.	Number.
1,217	1,066	327	179	173	119	145	586	98	32	209	205	14,647	
252	20	39	32	8	25	18	247	13	5	18	17	2,691	1
754	25	141	66	128	87	87	185	72	22	170	184	7,753	2
211	1,021	147	81	37	7	40	154	13	5	21	4	4,203	3
61	1	32	16	6	14	3	22	35	8	22	39	727	
4	1	1	.....	.....	1	1	6	2	.....	.....	.....	92	1
54	.....	31	16	3	13	1	14	32	7	22	39	591	2
.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	4	3
1	.....	.....	.....	3	.....	.....	1	.....	1	.....	.....	27	4
2	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	13	5
13	6	3	.....	.....	4	5	7	1	3	3	3	179	
4	.....	.....	.....	.....	2	1	3	1	1	3	2	59	1
1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	16	2
2	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	21	3
5	4	3	.....	.....	.....	3	1	.....	2	.....	1	55	4
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	5
.....	2	.....	.....	.....	2	.....	1	.....	.....	.....	.....	20	6
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	7
74	3	19	1	3	11	10	22	6	.....	13	28	820	
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20	1
6	.....	.....	.....	.....	2	.....	1	.....	.....	2	.....	36	2
25	1	3	.....	.....	4	2	2	1	.....	.....	.....	153	3
1	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	14	4
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	5
.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	5	6
.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	18	7
1	.....	3	.....	.....	.....	1	1	.....	.....	2	.....	62	8
4	.....	.....	.....	.....	.....	1	1	3	.....	.....	.....	56	9
20	.....	9	.....	.....	4	3	12	.....	.....	8	28	236	10
2	.....	.....	1	1	.....	2	1	.....	.....	.....	.....	28	11
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	12
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	13
.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1	14
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	4	15
9	.....	3	1	1	.....	1	1	.....	.....	1	.....	127	16
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12	17
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	18
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	19
1	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	27	20
.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	10	21

Table XI.—

Number.	Classification of Occupation.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	DOMESTIC SERVICE:—	936	24	26	23	21	84	22	384
1	Butlers	10	.....	.....	1	.....	3	1	2
2	Carpet layers	1	.....	.....	.....	.....	.....	.....	.....
3	Chefs	1	.....	.....	.....	.....	.....	2	.....
4	Chippers	1	.....	.....	.....	.....	.....	.....	.....
5	Cooks	137	3	.....	2	.....	15	10	50
6	Dishwashers	39	19	24	3	5	4	.....	40
7	Housemen	354	.....	.....	9	3	25	2	133
8	Kitchen work	60	1	2	.....	6	13	4	34
9	Pantry men	1	.....	.....	.....	.....	.....	.....	1
10	Porters	193	1	.....	4	5	5	1	70
11	Stewards	.....	.....	.....	.....	.....	1	.....	.....
12	Waiters	139	.....	.....	4	2	18	2	54
	MANUAL LABOR:—	2,741	43	23	124	64	145	63	822
1	Brickpackers	7	.....	.....	.....	2	1	.....	2
2	Grain shovelers	21	.....	2	.....	2	1	.....	8
3	Laborers	1,977	26	19	111	43	47	44	641
4	Laborers, railroad	736	17	2	13	17	96	19	171
	PROFESSIONAL:—	16	.....	.....	1	.....	5	2	3
1	Architects	.....	.....	.....	.....	.....	1	.....	.....
2	Artists	2	.....	.....	.....	.....	1	1	.....
3	Draughtsmen	2	.....	.....	.....	.....	.....	.....	.....
4	Druggists	1	.....	.....	.....	.....	.....	.....	.....
5	Nurses	7	.....	.....	1	.....	3	1	3
6	Proofreaders	1	.....	.....	.....	.....	.....	.....	.....
7	Teachers, music	.....	.....	.....	.....	.....	.....	.....	.....
8	Teachers not stated	3	.....	.....	.....	.....	.....	.....	.....
9	Undertakers	.....	.....	.....	.....	.....	.....	.....	.....
	TRADES:—	805	34	24	20	16	96	15	301
1	Bakers	14	4	.....	.....	.....	1	3	16
2	Barbers	4	.....	.....	.....	.....	.....	1	1
3	Bench hands	1	.....	.....	.....	.....	.....	.....	.....
4	Bicycle workers	6	.....	.....	.....	.....	.....	.....	3
5	Blacksmiths	11	1	.....	2	.....	3	1	10
6	Buffers	1	.....	.....	.....	.....	.....	.....	2
7	Boilermakers	1	.....	.....	.....	.....	1	.....	.....
8	Bookbinders	2	.....	.....	.....	.....	.....	.....	1
9	Box makers	4	1	.....	.....	1	.....	.....	3
10	Brass finishers	4	1	.....	.....	.....	.....	.....	2
11	Bricklayers	2	.....	.....	.....	.....	.....	.....	1
12	Bridge builders	2	.....	.....	.....	.....	.....	.....	.....
13	Broom makers	2	.....	.....	.....	.....	.....	.....	.....
14	Brush makers	.....	.....	.....	.....	.....	2	.....	.....
15	Butchers	10	.....	1	.....	.....	2	.....	8
16	Button-hole makers	.....	.....	.....	.....	.....	.....	.....	.....
17	Cabinet makers	3	2	.....	.....	.....	.....	.....	1
18	Calkers	.....	.....	.....	.....	.....	.....	.....	.....
19	Calsominers	2	.....	2	.....	.....	1	.....	3
20	Candy makers	1	.....	.....	.....	.....	.....	.....	.....
21	Car builders	7	1	.....	.....	2	.....	.....	2
22	Carpenters	90	4	2	4	4	20	.....	43
23	Carriage trimmers	.....	.....	.....	.....	.....	.....	.....	1
24	Cigar makers	.....	.....	.....	.....	.....	2	.....	.....
25	Coal miners	.....	.....	.....	.....	.....	.....	.....	.....
26	Compositors	2	.....	.....	.....	.....	.....	.....	1
27	Coopers	1	.....	.....	.....	.....	.....	.....	1
28	Coremakers	.....	.....	1	.....	.....	.....	.....	.....
29	Drill pressman	4	.....	.....	.....	.....	.....	.....	.....
30	Dyers	1	.....	.....	.....	.....	.....	1	.....
31	Electricians	38	.....	2	2	.....	5	.....	14
32	Engineers	82	1	1	4	.....	11	.....	25
33	Engravers	1	.....	.....	.....	.....	.....	.....	.....

Continued.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.	Number.
197	11	48	27	19	25	25	100	22	5	49	50	2,098	
3	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	21	1
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	3
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	4
4	3	.....	.....	1	4	4	14	6	3	7	10	297	5
33	5	15	22	14	18	.....	19	1	.....	10	21	295	6
47	2	14	1	1	1	11	43	6	.....	11	7	670	7
12	.....	6	3	3	.....	.....	6	4	2	5	1	162	8
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	9
30	.....	8	1	1	5	3	16	5	.....	12	10	370	10
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	11
42	.....	2	.....	.....	.....	7	2	.....	.....	4	1	277	12
486	1,027	90	71	94	25	56	196	17	6	53	26	6,172	
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	13	1
2	1	2	1	.....	.....	1	1	.....	.....	.....	.....	42	2
358	822	77	66	76	25	31	181	17	2	35	16	4,614	3
126	206	11	3	17	.....	24	13	.....	2	19	11	1,503	4
1	3	.....	.....	.....	.....	.....	3	2	.....	.....	.....	36	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	2
.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	3	3
.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	2	4
.....	.....	.....	.....	.....	.....	.....	2	1	.....	.....	.....	18	5
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	6
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	7
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	8
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	9
100	7	31	11	24	14	26	83	8	5	12	10	1,642	
1	.....	2	.....	.....	.....	.....	3	2	.....	1	.....	47	1
2	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	10	2
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	3
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9	4
7	.....	3	.....	2	.....	2	2	.....	2	.....	.....	46	5
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	4	6
.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	4	7
.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	4	8
3	.....	.....	1	.....	.....	.....	2	.....	.....	.....	.....	15	9
.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	9	10
3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	11
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	12
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	13
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	14
.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	.....	24	15
.....	.....	.....	.....	.....	.....	.....	2	1	.....	.....	.....	.....	16
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9	17
.....	2	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	18
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12	19
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	20
.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	14	21
21	1	11	.....	3	2	4	18	1	.....	2	3	233	22
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	23
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	24
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	26
.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	3	27
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	28
1	.....	.....	.....	.....	1	.....	2	.....	.....	.....	.....	8	29
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	30
2	.....	.....	.....	2	.....	.....	3	1	.....	.....	3	72	31
11	.....	3	.....	1	.....	.....	7	.....	.....	1	.....	149	32
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	33

Table XI—

Number.	Occupations.	American.	Austrian	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	TRADES—*Continued.*								
34	Firemen	70	2	3	5	.....	7	.....	24
35	Gasfitters	4	.....	.....	.....	.....	.....	.....	.....
36	Glassworkers	.....	.....	.....	.....	.....	.....	.....	.....
37	Hardwood finishers	2	.....	.....	.....	.....	.....	.....	.....
28	Harness makers	3	.....	.....	.....	.....	.....	.....	3
39	Hatmakers	1	.....	.....	.....	.....	.....	.....	.....
40	Horseshoers	2	.....	.....	.....	.....	.....	.....	.....
41	Iron workers	9	.....	.....	.....	.....	.....	.....	.....
42	Lathe hands	5	.....	.....	.....	1	.....	.....	.....
43	Lathers	1	3	.....	.....	.....	.....	.....	.....
44	Laundrymen	13	.....	.....	.....	.....	.....	.....	4
45	Linemen, electrical	4	.....	.....	.....	.....	.....	.....	.....
46	Locksmiths	1	.....	.....	.....	.....	.....	.....	.....
47	Machine hands	51	2	3	.....	.....	2	1	16
48	Machinists	102	3	2	.....	4	15	2	34
49	Masons	3	.....	.....	.....	.....	.....	.....	.....
50	Metal workers	1	.....	.....	.....	.....	.....	.....	.....
51	Millwrights	2	.....	.....	.....	.....	.....	.....	.....
52	Molders	22	2	.....	.....	2	3	.....	5
53	Nickel platers	1	.....	.....	.....	.....	1	.....	2
54	Packers	39	1	2	.....	.....	4	.....	13
55	Painters	48	1	.....	2	.....	10	3	12
56	Paperhangers	4	.....	.....	1	.....	2	1	3
57	Patternmakers	3	.....	.....	.....	.....	.....	.....	1
58	Photographers	3	.....	.....	.....	.....	.....	.....	1
59	Piano finishers	1	.....	.....	.....	.....	.....	.....	.....
60	Piano makers	2	.....	.....	.....	.....	.....	1	.....
61	Plasterers	3	.....	.....	.....	.....	.....	.....	.....
62	Plumbers	5	.....	.....	.....	.....	.....	.....	1
63	Polishers, metal	3	.....	3	.....	.....	.....	.....	3
64	Polishers, not stated	5	.....	.....	.....	.....	1	.....	2
65	Pressers	3	.....	.....	.....	.....	.....	.....	.....
66	Pressmen	4	.....	.....	.....	.....	.....	.....	.....
67	Printers	21	.....	.....	.....	.....	.....	.....	6
68	Punch press hands	1	.....	1	.....	.....	.....	.....	2
69	Roofers	2	2	.....	.....	.....	.....	.....	.....
70	Sausagemakers	.....	.....	.....	.....	.....	.....	.....	1
71	Shoemakers	4	.....	.....	.....	.....	.....	.....	4
72	Steamfitters	7	.....	.....	.....	.....	.....	.....	4
73	Stonecutters	2	.....	.....	.....	.....	.....	.....	1
74	Stonemasons	4	.....	.....	.....	.....	.....	.....	.....
75	Tailors	5	.....	1	.....	.....	.....	.....	4
76	Tanners	.....	.....	.....	.....	.....	.....	.....	.....
77	Telegraphers	2	.....	.....	.....	.....	.....	.....	.....
78	Tile roofers	1	.....	.....	.....	.....	.....	.....	.....
79	Tinsmiths	9	.....	.....	.....	.....	.....	.....	5
80	Toolmakers	4	.....	.....	.....	.....	.....	.....	1
81	Trunk makers	1	.....	.....	.....	.....	.....	.....	.....
82	Upholsters	10	.....	.....	.....	.....	1	.....	4
83	Vise hands	2	.....	.....	.....	.....	.....	.....	2
84	Wagon makers	2	.....	.....	.....	.....	.....	1	1
85	Watch makers	1	.....	.....	.....	.....	.....	.....	.....
86	Weavers	1	.....	.....	.....	.....	.....	.....	.....
87	Wood finishers	2	.....	.....	.....	1	.....	.....	.....
88	Wood workers	8	3	.....	.....	.....	2	.....	4

Continued.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.....	Number.
14	1	.....	3	1	.....	1	7	.....	.....	.....	.....	138	34
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	35
.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	36
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	37
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	38
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	39
.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	.....	2	40
.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	12	41
.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	7	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	17	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	45
3	.....	.....	.....	3	.....	.....	2	.....	.....	.....	.....	1	46
3	.....	5	1	4	3	4	17	.....	2	.....	.....	83	47
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	281	48
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	49
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	50
3	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	3	51
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	41	52
4	.....	.....	3	.....	2	2	4	.....	.....	.....	2	4	53
4	2	1	.....	.....	4	.....	3	2	.....	2	.....	76	54
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	94	55
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	56
.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	4	57
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	58
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	59
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	60
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	61
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	7	62
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10	63
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10	64
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	4	65
3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	66
.....	.....	.....	.....	.....	.....	1	1	.....	.....	2	1	35	67
.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	5	68
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	69
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	70
2	.....	1	1	.....	.....	.....	.....	.....	.....	2	.....	11	71
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15	72
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	73
2	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	6	74
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	14	75
.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	76
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	77
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	78
.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	15	79
.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	6	80
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	81
.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	17	82
.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	4	83
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	84
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	85
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	86
1	.....	.....	.....	.....	.....	.....	2	.....	1	.....	.....	4	87
												21	88

Table XI—

Number.	Classification of Occupation.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	TRANSPORTATION:—	649	5	17	19	23	57	5	206
1	Baggagemen	3							3
2	Barnmen	93	2	2	12	1	28		37
3	Brakemen	3							
4	Carriage and wagon washers	10							3
5	Coachmen	41	2		1	1	13		20
6	Conductors	2	1						1
7	Drivers	46					5		17
8	Elevatormen	52		3		3	4	3	15
9	Freight house men	1							
10	Hostlers	18					2	2	3
11	Motormen	3			1				2
12	Switchmen	2							
13	Teamsters	364		11	5	15	5		104
14	Truckmen	11		1		3			1
	MISCELLANEOUS	742	5	27	23	32	58	9	303
1	Any light work	3			1		1	1	2
2	Apprentices	10		5	1	1			10
3	Auctioneers								
4	Bartenders	12	1	1	1		1		12
5	Bill posters	2					1		2
6	Blacksmith helpers	8					1		5
7	Boys, bell	65			1		2		5
8	Boys, errand	53		5	4	1	7		32
9	Boys, office	83		2			8	1	28
10	Cleaners, harness or paint	3				2			
11	Coal heavers								1
12	Companions	1							
13	Employés, general store	2							
14	Employés, jobbing house	3							
15	Employés, wholesale house	3					2		2
16	Factory hands	172	3	9	6	11	12	4	89
17	Foreman	5							
18	Foundrymen	6							2
19	Furnace tenders	1					1		2
20	Horseshoers' helpers	1							
21	Horse trainers	1							
22	Ice helpers	4							
23	Janitors	156		1	5	14	10		72
24	Models	3							
25	Molders' helpers	2							1
26	Office help	24		2			5		7
27	Oilers	2							
28	Operators	1							
29	Orderlies	2						1	
30	Piano tuners								
31	Rodmen	1							
32	Sailors	2							
33	Sewing machine hands	1							
34	Stovemen	1							
35	Watchmen	68	1		2		5	2	20
36	Window washers	35		2		3	1		8
37	Yardmen	6		2			1		3
	Females	3,332	26	90	249	92	673	143	1,581
1	North Side office	747		15	67	33	232	80	358
2	South Side office	1,669	24	46	163	49	416	57	755
3	West Side office	916	2	29	19	10	25	6	468

Continued.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandanavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.	Number.
128	.....	49	9	7	19	11	73	3	3	38	33	1,354	
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	1	9	1
42	.....	19	4	1	7	5	20	.....	3	11	14	301	2
....	.....	1	....	.....	.....	.....	.....	.....	.....	.....	.....	4	3
4	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	19	4
15	.....	2	.....	.....	2	.....	8	1	.....	16	.....	112	5
2	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	7	6
4	.....	.....	.....	.....	.....	1	5	.....	.....	.....	.....	78	7
9	.....	3	2	1	4	.....	6	.....	.....	2	.....	107	8
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	9
4	.....	.....	1	.....	.....	.....	4	.....	.....	1	.....	35	10
1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	8	11
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	12
45	.....	23	2	5	5	5	26	2	.....	17	18	652	13
2	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	19	14
157	8	55	43	20	7	9	80	4	2	19	16	1,619	
.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	2	12	1
1	1	4	2	.....	.....	1	3	.....	.....	.....	.....	39	2
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	3
11	.....	.....	.....	.....	.....	.....	3	.....	.....	1	.....	43	4
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	5
5	.....	1	.....	1	.....	.....	3	.....	.....	.....	.....	24	6
11	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	86	7
28	.....	4	3	.....	3	.....	4	.....	1	3	7	154	8
22	.....	3	1	4	.....	.....	6	.....	.....	.....	.....	158	9
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	10
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	11
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	12
.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	4	13
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	14
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7	15
26	3	20	26	6	2	6	20	1	1	4	1	422	16
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	6	17
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8	18
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	19
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	20
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	21
.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	5	22
23	2	14	1	4	.....	.....	32	.....	.....	2	3	339	23
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	24
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	25
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	1	42	26
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	27
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	28
.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	4	29
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	30
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	31
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	32
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	33
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	34
15	.....	3	.....	.....	.....	1	4	1	.....	.....	.....	122	35
3	.....	5	9	3	2	.....	1	.....	.....	3	2	77	36
3	.....	.....	.....	2	.....	.....	2	.....	.....	3	.....	22	37
2,109	23	312	191	18	416	143	569	55	23	325	280	10,650	
481	1	43	106	....	368	25	258	12	.....	70	31	2,927	
359	6	118	28	18	36	105	199	43	23	248	131	5,493	
269	16	151	57	.....	12	13	112	.....	.....	7	118	2,230	

Table XI—

Number.	Occupations.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	CLERICAL:—	97	.....	.....	.....	.....	6	1	15
1	Bookkeepers	6	.....	.....	.....	.....	1	1	.....
2	Copyists	1	.....	.....	.....	.....	.....	.....	.....
3	Office work	49	.....	.....	.....	.....	4	.....	9
4	Stenographers	41	.....	.....	.....	.....	1	.....	6
	COMMERCIAL:—	70	.....	.....	3	.....	11	2	8
1	Agents	2	.....	.....	.....	.....	.....	.....	.....
2	Canvassers	6	.....	.....	.....	.....	.....	.....	2
3	Cash girls	1	.....	.....	.....	.....	.....	.....	.....
4	Cashiers	12	.....	.....	1	.....	4	.....	3
5	Clerks	33	.....	.....	2	.....	5	.....	2
6	Demonstrators	6	.....	.....	.....	.....	1	2	.....
7	Marker, laundry	.....	.....	.....	.....	.....	.....	.....	.....
8	Saleswomen	8	.....	.....	.....	.....	1	.....	1
9	Solicitors	2	.....	.....	.....	.....	.....	.....	.....
	DOMESTIC SERVICE:—	2,872	26	83	229	89	637	127	1,468
1	Chambermaids	228	.....	5	22	2	33	6	75
2	Cooks	256	.....	2	41	.....	112	47	140
3	Dayworkers	157	3	21	6	12	9	5	104
4	Diningroom help	133	.....	3	.....	.....	18	16	27
5	Dishwashers	126	7	3	12	5	18	2	56
6	Domestic	214	.....	14	7	6	12	1	262
7	General housework	285	.....	1	2	3	109	2	76
8	Hotel help	1	.....	.....	.....	.....	.....	.....	.....
9	Housekeepers	156	.....	2	2	1	6	1	40
10	Housework	601	11	14	59	27	208	28	331
11	Kitchen help	132	3	4	11	8	27	3	120
12	Laundresses	62	.....	5	3	19	16	4	37
13	Matrons	1	.....	.....	.....	.....	.....	.....	.....
14	Paint cleaners	2	.....	.....	.....	.....	.....	.....	.....
15	Pantry work	41	2	5	15	.....	11	.....	19
16	Reception service	3	.....	.....	.....	.....	.....	3	.....
17	Scrubwomen	42	.....	3	4	5	9	.....	40
18	Second wark	134	.....	1	17	.....	11	7	45
19	Tray girls	1	.....	.....	.....	.....	.....	.....	.....
20	Waitresses	297	.....	.....	27	.....	38	2	96
	PERSONAL SERVICE:—	15	.....	.....	.....	.....	.....	1	1
1	Attendants	5	.....	.....	.....	.....	.....	.....	.....
2	Companions	9	.....	.....	.....	.....	.....	.....	1
3	Lady's maid	1	.....	.....	.....	.....	.....	1	.....
	PROFESSIONAL:—	107	.....	.....	15	1	10	3	47
1	Governesses	2	.....	.....	.....	.....	.....	1	.....
2	Nurses	105	.....	.....	15	1	10	2	47
	TRADES:—	57	.....	.....	2	.....	5	9	8
1	Bakers	1	.....	.....	.....	.....	.....	.....	.....
2	Dressmakers	3	.....	.....	.....	.....	.....	.....	.....
3	Milliners	1	.....	.....	.....	.....	.....	.....	.....
4	Photographers	1	.....	.....	.....	.....	.....	.....	.....
5	Seamstresses	51	.....	.....	2	.....	5	9	8
6	Tailoresses	.....	.....	.....	.....	.....	.....	.....	.....
7	Tiemakers	.....	.....	.....	.....	.....	.....	.....	.....

Continued.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.	Number.
17	.....	3	.....	.....	.....	1	1	.....	.....	.....	4	145	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8	1
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	2
11	.....	3	.....	.....	.....	1	.....	.....	.....	.....	3	80	3
6	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	56	4
12	.....	3	.....	.....	1	.....	8	.....	.....	1	.....	119	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	1
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8	2
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	3
2	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	25	4
6	.....	2	.....	.....	1	.....	5	.....	.....	1	.....	57	5
1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	6
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12	8
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	9
2,012	10	292	179	17	411	140	539	53	23	265	259	9,731	
128	.....	35	1	.....	6	3	39	3	.....	12	35	634	1
220	1	33	3	.....	3	20	51	6	.....	26	22	983	2
105	1	12	1	.....	10	19	18	.....	.....	7	29	519	3
13	.....	5	.....	.....	.....	.....	6	.....	.....	.....	11	232	4
144	.....	15	8	2	16	3	17	14	3	42	19	513	5
103	3	86	27	.....	.....	6	64	.....	.....	1	36	842	6
155	.....	3	106	.....	347	3	107	2	.....	11	11	1,223	7
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	8
39	.....	.....	3	.....	.....	3	6	.....	.....	5	15	279	9
549	4	25	11	7	14	68	56	23	11	90	31	2,168	10
192	1	14	9	3	4	5	57	2	4	21	17	637	11
58	.....	6	2	.....	.....	6	15	2	3	8	6	252	12
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	13
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	14
26	.....	5	.....	2	.....	1	.....	.....	.....	4	.....	131	15
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	16
68	.....	16	7	3	9	2	18	.....	2	23	17	268	17
56	.....	12	1	.....	2	1	43	1	.....	8	3	342	18
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	19
155	.....	25	.....	.....	.....	.....	42	.....	.....	7	7	696	20
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	3	21	
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	2	8	1
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	11	2
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	3
28	.....	9	2	.....	3	.....	11	2	.....	5	2	245	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	1
28	.....	9	2	.....	3	.....	11	2	.....	5	2	242	2
10	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1	93	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	2
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	3
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	4
10	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1	87	5
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7

Table XI.—

Number.	Classification of Occupations.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders
	MISCELLANEOUS:—	114	.....	7	.....	2	4	.....	34
1	Bindery girls	4	.....	.....	.....	.....	.....	.....	1
2	Designers	1	.....	.....	.....	.....	.....	.....	.....
3	Factory work	104	.....	7	.....	2	4	.....	33
4	Janitresses	3	.....	.....	.....	.....	.....	.....	.....
5	Models	1	.....	.....	.....	.....	.....	.....	.....
6	Painters' sketch	1	.....	.....	.....	.....	.....	.....	.....
7	Telephone girls	.....	.....	.....	.....	.....	.....	.....	.....

TABLE XII.—*Summary of the Nationality of all Ap-*

Sex and Classification of Occupations, with Percentages	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
Males	6,690	115	128	255	182	547	122	2,252
Percentages	45.67	0.79	0.87	1.74	1.24	3.74	0.83	15.38
Agricultural	265	1	4	25	21	45	.....	107
Clerical	97	.....	2	2	3	13	1	13
Commercial	439	3	5	18	2	44	5	113
Domestic service	936	24	26	23	21	84	22	384
Manual labor	2,741	43	23	124	64	145	63	822
Professional	16	.....	.....	1	.....	5	2	3
Trades	805	34	24	20	16	96	15	301
Transportation	649	5	17	19	23	57	5	206
Miscellaneous	742	5	27	23	32	58	9	303
Females	3,332	26	90	249	92	673	143	1,581
Percentages	31.29	0.25	0.85	2.34	0.86	6.32	1.34	14.85
Clerical	97	.....	.....	.....	.....	6	1	15
Commercial	70	.....	.....	3	.....	11	2	8
Domestic service	2,872	26	83	229	89	637	127	1,468
Personal service	15	.....	.....	.....	.....	.....	1	1
Professional service	107	.....	.....	15	1	10	3	47
Trades	57	.....	.....	2	.....	5	9	8
Miscellaneous	114	.....	7	.....	2	4	.....	34

Concluded.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.	Number.
30	13	4	9	1	1	2	10	.....	.....	54	11	296	
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	1
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	2
28	13	4	9	1	1	2	10	.....	.....	54	11	283	3
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	4
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	5
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	6
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7

plicants for Employment, by Classified Occupations.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.
1,217	1,066	327	179	173	119	145	586	98	32	209	205	14,647
8.31	7.28	2.23	1.22	1.18	0.81	0.99	4.00	0.67	0.22	1.43	1.40	100.00
61	1	32	16	6	14	3	22	35	8	22	39	727
13	6	3	.....	.....	4	5	7	1	3	3	1	179
74	3	19	2	3	11	10	22	6	.....	13	28	820
197	11	48	27	19	25	25	100	22	5	49	50	2,098
486	1,027	90	71	94	25	56	196	17	6	53	26	6,172
1	3	.....	.....	.....	.....	.....	3	2	.....	.....	.....	36
100	7	31	11	24	14	26	83	8	5	12	10	1,642
128	.....	49	9	7	19	11	73	3	3	38	33	1,354
157	8	55	43	20	7	9	80	4	2	19	16	1,619
2,109	23	312	191	18	416	143	569	55	23	325	280	10,650
19.80	0.21	2.93	1.79	0.17	3.91	1.34	5.34	0.52	0.21	3.05	2.63	100.00
17	.....	3	.....	.....	.....	1	1	.....	.....	.....	4	145
12	.....	3	.....	.....	1	.....	8	.....	.....	1	.....	119
2,012	10	292	179	17	411	140	539	53	23	265	259	9,731
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	....	3	21
28	.....	9	2	.....	3	.....	11	1	.....	5	2	245
10	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1	93
30	13	4	9	1	1	2	10	.....	.....	54	11	296

REPORTS

OF THE

SUPERINTENDENTS

REPORT OF THE NORTH SIDE OFFICE.

CHICAGO, November 26, 1901.

HON. DAVID ROSS, *Secretary Bureau of Labor Statistics, Springfield, Illinois:*

SIR:—In compliance with section 6 of the law establishing free employment offices, I beg to submit the third annual report of the business of this office, covering the period from October 1, 1900, to October 1, 1901, together with the expense account for the same period.

Our people have very much to be thankful for. I think there never was a year when the demand for help was so great and the supply so scarce. I have found it more difficult in the past year to find help to supply the demand than to find places for those who were seeking employment.

The first nine months of the year there was no appropropriation for defraying the expense of advertising. There being only three months left, after the appropriation by the last legislature was available, we could scarcely note the benefits until the expiration of our year, September 30, 1901. We are still laboring under a disadvantage in that the appropriation is not enough to provide us with room to properly conduct the female department. It is essential to its proper conduct that the rooms for employés and employers should be so separated that conversation can not be heard by all those who are present and not directly interested.

It is further gratifying to report that the business houses generally are becoming interested in these offices, and the advantages they afford are more universally recognized now than ever before. I think it is only a question of a short time when all will avail themselves of the opportunities offered by these offices for all classes of employment. I have many letters from business houses expressing pleasure at the promptness and care their requisitions for help have received, and acknowledging the great benefit the law is to the people.

I also receive many complaints from applicants regarding the private agencies, who accept their fee for registration, but seldom give anything in return. I generally refer them to the State's attorney's office for redress and give them the address of the free employment offices in Chicago, where they may have all the advantages without paying for them.

I also note another feature which I have discovered to exist, and that is that in some establishments the person who is authorized to hire and discharge help appears to be in collusion with the private agencies. I have reason to believe that in some instances the fee is divided, thereby making it an object for the person in authority to patronize the private agencies.

Respectfully submitted,

D. M. BROTHERS,

Superintendent.

Statement of Annual Expenses, North Side Free Employment Office, from Oct. 1, 1900, to Oct. 1, 1901.

Office rent	$600 00	Rent of typewriter	48 00
Janitor service	187 00	Postage	93 00
Toilet supplies	27 00	Clerk and stenographer	460 00
Gas for fuel and light	139 06	Miscellaneous supplies, carpenter work and repairing	376 03
Ice and water supply	14 25	Advertising	107 88
Time service W. U. T. Co	12 00		
Telephone and toll service and booth	318 30	Total	$2,382 52

Table showing the Character of the Positions Applied for, both for Employment and for Help, the Number of Positions Secured, and the Number Remaining Unfilled—North Side Office.

Number.	Character of Positions.	Applications for Employment.			Applications for Help.	
		Number Filed.	Number of Positions Secured.	Number Unfilled.	Number Filed.	Number Unfilled.
	Males.					
1	Bakers	17	2	15	4	2
2	Barbers	2		2		
3	Barnmen	71	52	19	78	26
4	Bartenders	10	1	9	1	
5	Bench hands	1		1		
6	Bicycle workers	1		1		
7	Blacksmiths	11	3	8	9	6
8	Blacksmith helpers	7	7		13	6
9	Bookkeepers	12		12	1	1
10	Boxmakers	2	1	1	1	
11	Boys, bell	3		3		
12	Boys, office	67	21	46	53	32
13	Brakemen	2		2	1	1
14	Brass finishers	1		1		
15	Butchers	5	1	4	4	3
16	Butlers	2		2		
17	Buttonhole makers				6	6
18	Cabinet makers	3	1	2	6	5
19	Candy makers	1		1	1	1
20	Canvassers				3	3
21	Carpenters	46	32	14	46	14
22	Carriage trimmer	1		1		
23	Carriage and wagon washers				4	4
24	Chippers	1	1		2	1
25	Cigarmakers	1		1		
26	Clerks, not stated	130	28	102	46	18
27	Coachmen	51	28	23	37	9
28	Coal miners				10	10
29	Collectors	3		3	1	1
30	Cooks	46	28	18	44	16
31	Coopers	1		1		
32	Conductors	6	4	2	4	
33	Curtain hangers	1	1		1	
34	Designers				2	2
35	Detectives	5	4	1	11	7
36	Dishwashers	28	17	11	31	14
37	Draughtsmen	2		2		
38	Drivers	76	25	51	39	14
39	Electricians	5		5		
40	Elevatormen	38	22	16	28	6
41	Engineers	31	3	28	8	5
42	Factory hands	112	63	49	152	89
43	Farmers	86	65	21	115	50
44	Firemen	21	2	19	4	2
45	Florists	2		2	1	1
46	Gardeners	6	1	5	5	4
47	Glass workers	1		1		

North Side Office.—Continued.

Number.	Character of Position.	Applications for Employment.			Applications for Help.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
48	Harness makers	2	.....	2	.....	.....
49	Housemen	167	120	47	153	33
50	Janitors	84	35	49	47	12
51	Kitchenwork	23	9	14	20	11
52	Laborers	1,133	975	158	2,330	1,355
53	Lathers	1	.....	1	1	1
54	Laundrymen	1	.....	1	.....	.....
55	Machine hands	10	2	8	6	4
56	Machinists	33	14	19	17	3
57	Molders	3	.....	3	5	5
58	Motormen	7	6	1	8	2
59	Nickelplaters	1	.....	1	.....	.....
60	Nurses	2	2	.....	2	.....
61	Operators	1	.....	1	1	1
62	Packers	12	2	10	4	2
63	Painters	16	2	14	2	.....
64	Paper hangers	1	.....	1	.....	.....
65	Pantrymen	.....	.....	.....	3	3
66	Pan washers	1	.....	1	1	1
67	Photographers	4	1	3	1	.....
68	Plumbers	4	.....	4	.....	.....
69	Polishers, not stated	4	.....	4	1	1
70	Porters	71	35	36	50	15
71	Pressers	1	.....	1	.....	.....
72	Printers	7	.....	7	.....	.....
73	Salesmen	11	2	9	4	2
74	Shoemakers	1	.....	1	.....	.....
75	Sign posters	.....	.....	.....	2	2
76	Solicitors	2	.....	2	13	13
77	Steam fitters	2	.....	2	.....	.....
78	Stenographers	2	1	1	2	1
79	Stewards	1	.....	1	.....	.....
80	Stockmen	1	1	.....	7	6
81	Stove mounters	1	.....	1	.....	.....
82	Switchmen	2	1	1	2	1
83	Tailors	1	.....	1	1	1
84	Teamsters	101	59	42	142	83
85	Telegraphers	1	.....	1	.....	.....
86	Tinsmiths	5	1	4	3	2
87	Tool makers	1	.....	1	.....	.....
88	Truckmen	.....	.....	.....	4	4
89	Undertakers	1	.....	1	.....	.....
90	Upholsterers	3	2	1	4	2
91	Wagonmakers	4	1	3	1	.....
92	Waiters	23	11	12	31	20
93	Watchmen	19	.....	19	.....	.....
94	Window washers	1	1	.....	1	.....
95	Wood workers	1	1	.....	8	7
	Total	2,691	1,697	994	3,650	1,953
	Positions secured, previous applications	.....	796	796	.....	796
	Yearly total	2,691	2,493	198	3,650	1,157
	Report previous years	8,788	5,189	3,599	7,277	2,088
	Grand total	11,479	7,682	3,797	10,927	3,245
	Females.					
1	Canvassers	1	1	.....	31	30
2	Cashiers	9	.....	9	1	1
3	Clerks	22	7	15	14	7
4	Chambermaids	141	110	31	141	31
5	Companions	3	2	.....	3	1
6	Cooks	325	274	51	379	105
7	Dayworkers	201	165	36	185	20
8	Demonstrators	10	7	3	9	2
9	Designers	1	.....	1	.....	.....
10	Dining-room help	98	85	13	176	91
11	Dishwashers	87	83	4	116	33

North Side Office—Concluded

Number.	Character of Position.	Applications for Employment.			Applications for Help.	
		Number Filed.	Number of positions Secured.	Number Unfilled.	Number Filed.	Number Unfilled.
12	Factory work	107	72	35	158	86
13	General housework	1,223	1,087	136	1,512	425
14	Governesses	1	.....	1	1	1
15	Housekeepers	60	37	23	57	20
16	Janitresses	1	1	.....	1	.....
17	Kitchen help	204	156	48	203	47
18	Laundresses	45	36	9	79	43
19	Markers (laundry)	.....	.....	.....	1	1
20	Matrons	1	1	.....	1	.....
21	Nurses	56	31	25	58	27
22	Pantry work	14	11	3	21	10
23	Parlor maids	1	1	.....	2	1
24	Reception service	3	.....	3	.....	.....
25	Saleswomen	1	.....	1	.....	.....
26	Scrubwomen	15	10	5	32	22
27	Seamstresses	30	15	15	34	19
28	Second work	122	90	32	125	35
29	Solicitors	1	1	.....	21	20
30	Stenographers	10	.....	10	.....	.....
31	Tailoresses	.....	.....	.....	3	3
32	Telephone girls	.....	.....	.....	1	1
33	Tiemakers	.....	.....	.....	25	25
34	Tray girls	1	1	.....	2	1
35	Waitresses	133	94	39	147	53
	Totals	2,927	2,378	549	3,540	1,162
	Positions secured, previous applications	.....	376	376	.....	376
	Yearly total	2,927	2,754	173	3,540	786
	Previous year's report	5,613	5,604	9	6,736	1,132
	Grand total	8,540	8,358	182	10,276	1,918

REPORT OF THE SOUTH SIDE OFFICE.

CHICAGO, October 30, 1901.

HON. DAVID ROSS, *Secretary Bureau of Labor Statistics, Springfield, Illinois:*

SIR: Complying with section 6 of the act of the General Assembly creating the Illinois free employment offices, I herewith submit the third annual report of the business of the South Side office for one year from October 1, 1900 to September 30, 1901. The report also contains data of an interesting nature from the "application and daily work of the office, together with the expense of maintaining the office for the same period."

A careful perusal of this report will show that the public, especially the employers, are convinced that they can procure reliable and efficient help on making an application to these offices. A large number of business firms, contractors, hotels, hospitals, railroads and other branches of the industrial and commercial world, together with private families, have made requisitions upon this office for help. The numerous acknowledgments received as to the competent help furnished has been very gratifying. The firms that have been supplied with clerical help have been well satisfied in every instance.

The work of this office has not been confined to supplying help and employment in the city, as the report will show that the farmers, who at all seasons of the year are in need of help, have been supplied very generously, which plainly indicates that the free employment offices are a factor in the work of producing and gathering the crops of the country.

The work of procuring employment brings this office in contact with two classes of persons, those who are willing and anxious to work, and in every respect worthy of any assistance that can be given them, and those who appear to be seeking employment, but are at the same time hoping that an opportunity will present itself (in the shape of the kind of employment offered, place of emplpyment or wages given, or even an intervention of providence) that will allow them a sufficient excuse to refuse the position. To distinguish and separate these classes requires judgment of a peculiar training that can only be perfected and cultivated by contact with the masses, and the daily routine work of the office affords the opportunity. While it is true that lengthy records, which mean practically an autobiography of the person, are of great assistance in determining the fitness, etc., of the applicant; it requires familiarity with persons and industries to successfully meet this issue.

These records, when compiled, embrace features of a sociological nature that can not be obtained otherwise, and the data they contain is invaluable.

The General Assembly appropriated the sum of four hundred dollars to be used for advertising purposes, which, together with the friendly attitude of the press, has increased the volume of business in this office to a marked degree.

Yours respectfully,

GEO. W. GEARY,

Superintendent.

Expense Account of South Side Office from Oct., 1900, to Sept. 30, 1901.

October, 1900	$ 239 08	May, 1901	$409 59
November, 1900	192 28	June, 1901	301 91
December, 1900	252 64	July, 1901	724 84
January, 1901	313 06	August, 1901	424 62
February, 1901	249 58	September, 1901	370 77
March, 1901	261 25		
April, 1901	245 84	Total	$3,986 46

ILLINOIS FREE EMPLOYMENT OFFICES.

ANNUAL REPORT OF THE SOUTH SIDE OFFICE.

Table Showing the Character of Positions Applied for, Both for Employment and for Help; the Number of Positions Secured, and the Number Remaining Unfilled—South Side Office.

Number.	Character of Positions.	Applications for Employment.			Applications for Help.	
		Number Filed.	Number Positions Secured.	Number Unfilled.	Number Filed.	Number Unfilled.
	Males.					
1	Agents	9	7	2	7	.....
2	Any light work	11	3	8	3	.....
3	Apprentices	2	2	.....	2	.....
4	Architects	1	1	.....	1	.....
5	Artists	5	5	.....	6	1
6	Auctioneers	1	.....	1	.....	.....
7	Baggagemen	8	8	.....	8	.....
8	Bakers	18	15	3	15	.....
9	Barbers	7	6	1	7	1
10	Barnmen	223	208	15	224	16
11	Bartenders	22	16	6	16	.....
12	Bicycle workers	7	5	2	6	1
13	Bill posters	6	6	.....	8	2
14	Blacksmiths	31	25	6	30	5
15	Blacksmith helpers	11	9	2	10	1
16	Boilermakers	4	3	1	3	.....
17	Bookbinders	1	1	.....	1	.....
18	Bookkeepers	33	3	30	3	.....
19	Boxmakers	13	10	3	10	.....
20	Boys, bell	78	69	9	71	2
21	Boys, cash	34	28	6	30	2
22	Boys, delivery	98	81	17	82	1
23	Boys, errand	133	117	16	119	2
24	Boys, office	91	87	4	90	3

South Side Office—Continued.

Number.	Character of Positions.	Applications for Employment.			Applications for Help.	
		Number Filed.	Number Positions Secured.	Number Unfilled.	Number Filed.	Number Unfilled.
25	Brakemen	1	.....	1	.....	.....
26	Brass finishers	2	1	1	1	.....
27	Bricklayers	6	5	1	11	6
28	Broommakers	2	2	.....	2	.....
29	Brushmakers	2	2	.....	2	.....
30	Butchers	11	7	4	7	.....
31	Butlers	18	17	1	17	.....
32	Cabinetmakers	3	3	.....	4	1
33	Calsominers	12	12	.....	12	.....
34	Canvassers	9	9	.....	10	1
35	Carbuilders	14	14	.....	16	2
36	Carpenters	149	140	9	158	18
37	Carpet layers	1	1	.....	1	.....
38	Carriage and wagon washers	11	9	2	10	1
39	Cashiers	1	.....	1	.....	.....
41	Chefs	3	2	1	2	.....
42	Cigarmakers	2	.....	2	.....	.....
43	Cleaners, harness	1	1	.....	1	.....
44	Cleaners, paint	2	2	.....	2	.....
45	Clerks, bill	2	1	1	1	.....
46	Clerks, drug	5	1	4	1	.....
47	Clerks, dry goods	7	3	4	3	.....
48	Clerks, grocery	13	11	2	11	.....
49	Clerks, hotel	9	2	7	2	.....
50	Clerks, shipping	23	3	20	3	.....
51	Clerks and salesmen	4	.....	4	.....	.....
52	Clerks, not stated	165	31	134	31	.....
53	Coachmen	48	39	9	41	2
54	Collectors	5	4	1	4	.....
55	Companions	1	.....	1	.....	.....
56	Compositors	2	1	1	1	.....
57	Cooks	218	191	27	199	8
58	Coopers	1	1	.....	1	.....
59	Copyists	4	2	2	2	.....
60	Demonstrators	2	2	.....	2	.....
61	Dishwashers	250	241	9	264	23
62	Draughtsmen	1	1	.....	1	.....
63	Drill pressmen	1	1	.....	1	.....
64	Drivers (express)	2	2	.....	3	1
65	Druggists	1	.....	1	.....	.....
66	Dyers	2	1	1	1	.....
67	Electricians	53	30	23	31	1
68	Elevator men	45	25	20	27	2
69	Employés, general store	4	1	3	1	.....
70	Employés, jobbing house	2	1	1	1	.....
71	Employés, wholesale house	7	2	5	3	1
72	Engineers	74	36	38	41	5
73	Engravers	1	.....	1	.....	.....
74	Factory hands	52	38	14	41	3
75	Farmers	6	6	.....	7	1
76	Farm hands	432	458	.....	517	59
77	Firemen	70	35	35	41	6
78	Florists	1	1	.....	1	.....
79	Foremen	2	1	1	1	.....
80	Foundrymen	7	6	1	8	2
81	Furnace tenders	3	2	1	2	.....
82	Gardeners	20	14	6	14	.....
83	Gas fitters	3	3	.....	3	.....
84	Grain shovelers	7	7	.....	7	.....
85	Hardwood finishers	2	2	.....	2	.....
86	Harness makers	4	3	1	3	.....
87	Hat makers	1	.....	1	.....	.....
88	Horseshoers	2	1	1	1	.....
89	Horseshoers, helpers	3	2	1	2	.....
90	Hostlers	2	1	1	1	.....
91	Housemen	390	351	39	367	16
92	Ironworkers	8	4	4	4	.....
93	Janitors	161	106	55	107	1
94	Kitchenwork	139	127	12	132	5
95	Laborers	1,562	1,551	11	1,578	27
96	Laborers, railroad	1,285	1,420	.....	1,481	61

South Side Office—Continued.

Number.	Character of Positions.	Applications for Employment.			Applications for Help.	
		Number Filed.	Number of Positions Secured.	Number Unfilled.	Number Filed.	Number Unfilled.
97	Lathers	3	2	1	2	.....
98	Laundrymen	13	10	3	10	.....
99	Linemen, electrical	4	2	2	2	.....
100	Locksmiths	1	1	.....	1	.....
101	Machine hands	34	20	14	20	.....
102	Machinists	92	71	21	81	10
103	Masons	4	3	1	3	.....
104	Millwrights	2	1	1	1	.....
105	Models	3	3	.....	3	.....
106	Molders	33	33	.....	35	2
107	Molders's helpers	4	3	1	3	.....
108	Motormen	1	1	.....	1	.....
109	Nurses	16	9	7	9	.....
110	Office help	42	12	30	12	.....
111	Oilers	2	2	.....	2	.....
112	Orderlies	4	3	1	3	.....
113	Packers	53	35	18	35	.....
114	Painters	48	29	19	32	3
115	Paper hangers	10	9	1	9	.....
116	Pantrymen	2	1	1	1	.....
117	Patternmakers	2	1	1	1	.....
118	Pianomakers	3	1	2	1	.....
119	Piano tuners	1	.....	1	.....	.....
120	Plasterers	4	3	1	3	.....
121	Plumbers	2	1	1	1	.....
122	Polishers, metal	2	1	1	1	.....
123	Polishers, not stated	1	.....	1	.....	.....
124	Porters	247	206	41	225	19
125	Pressmen	4	2	2	2	.....
126	Printers	26	15	11	15	.....
127	Proofreaders	1	1	.....	1	.....
128	Roofers	4	4	.....	4	.....
129	Sailors	2	1	1	1	.....
130	Salesmen	30	12	18	12	.....
131	Sausage makers	1	1	.....	1	.....
132	Shoemakers	9	7	2	8	1
133	Solicitors	10	10	.....	11	1
134	Steam fitters	7	4	3	4	.....
135	Stenographers	16	4	12	5	1
136	Stewards	1	1	.....	1	.....
137	Stock farm hands	12	10	2	11	1
138	Stock keepers	1	1	.....	1	.....
139	Stone cutters	3	1	2	1	.....
140	Stone masons	6	4	2	5	1
141	Tailors	11	8	3	8	.....
142	Teachers, music	1	.....	1	.....	.....
143	Teachers, not stated	3	.....	3	.....	.....
144	Teamsters	317	288	29	308	20
145	Telegraphers	1	.....	1	.....	.....
146	Tile roofers	1	.....	1	.....	.....
147	Time keepers	2	.....	2	.....	.....
148	Tinsmiths	9	8	1	8	.....
149	Tool makers	2	1	1	1	.....
150	Truckmen	13	13	.....	16	3
151	Trunkmakers	1	.....	1	.....	.....
152	Upholsterers	12	11	1	12	1
153	Vise hands	4	3	1	3	.....
154	Wagon makers	1	1	.....	1	.....
155	Waiters	245	214	31	224	10
156	Watchmakers	1	.....	1	.....	.....
157	Watchmen	42	6	36	6	.....
158	Weavers	1	.....	1	.....	.....
159	Window dressers	10	8	2	9	1
160	Window washers	65	60	5	64	4
161	Wood finishers	3	1	2	1	.....

South Side Office.—Continued.

Number.	Character of Positions.	Applications for Employment.			Applications for Help.	
		Number Filed.	Number of Positions Secured.	Number Unfilled.	Number Filed.	Number Unfilled.
162	Wood workers	13	10	3	10	.....
163	Yardmen	18	17	1	19	2
	Total	7,753	6,904	1,010	7,274	370
	Positions secured applicants who had applied for other positions	.....	.....	161	.....	.....
	Total	7,853	6,904	849	7,274	370
	Positions secured, applications filed previous year	.....	60	60	.....	60
	Total for year	7,753	6,964	789	7,274	310
	Previous years	15,031	9,678	5,353	11,325	1,677
	Gaand totals	22,784	16,642	6,142	18,599	1,957
	Females.					
1	Agents	2	2	.....	2	.....
2	Bindery girls	7	2	5	2	.....
3	Bookkeepers	6	6	.....	6	.....
4	Cashiers	10	3	7	3	.....
5	Clerks	16	11	5	12	1
6	Chambermaids	385	379	6	437	58
7	Companions	4	2	2	2	.....
8	Cooks	519	510	9	666	156
9	Copyists	1	1	.....	1	.....
10	Dayworkers	113	112	1	117	5
11	Demonstrators	1	.....	1	.....	.....
12	Dishwashers	345	342	3	390	48
13	Factory work	75	71	4	113	42
14	Housekeepers	125	94	31	96	2
15	Housework	2,168	2,189	14	2,815	626
16	Janitresses	1	1	.....	1	.....
17	Kitchen help	341	334	7	387	53
18	Lady's maid	2	2	.....	2	.....
19	Laundresses	144	143	1	179	36
20	Models	1	1	.....	1	.....
21	Nurses	112	97	15	119	22
22	Office work	38	22	16	23	1
23	Pantry work	101	97	4	113	16
24	Painter's sketch	1	.....	1	.....	.....
25	Reception service	3	2	1	2	.....
26	Saleswomen	11	2	9	2	.....
27	Scrubwomen	248	244	4	276	32
28	Seamstresses	37	30	7	34	4
29	Second work	157	150	7	183	33
30	Solicitors	2	2	.....	2	.....
31	Stenographers	35	9	26	10	1
32	Waitresses	482	470	12	611	141
	Totals	5,493	5,330	198	6,607	1,277
	Positions secured applications filed previous year	.....	15	15	.....	15
	Totals	5,493	5,345	183	6,607	1,262
	Positions secured applicants who had applied for other positions	.....	.....	35	.....	.....
	Totals	5,493	5,345	148	6,607	1,262
	Previous year	9,821	9,651	170	12,488	2,837
	Grand totals	15,314	14,996	318	19,095	4,099

REPORT OF WEST SIDE OFFICE.

CHICAGO, Nov. 25, 1901.

HON. DAVID ROSS, *Secretary Bureau Labor Statistics, Springfield, Illinois:*

DEAR SIR—In compliance with section 6 of the law establishing free employment offices I herewith submit the third annual report of the business of this office, from October 1, 1900, to and including September 30, 1901, together with the expense account for the same period.

Since the submission of the last yearly report this office has been removed from its former location at 28 Odgen avenue to its present address, Nos. 1 to 9 South Canal street. That this change was advisable is clearly shown by the increased business that has been transacted in our present location. It is desirable that these offices remain at their present locations, as we are convinced, from our experience in the past, that frequent changes in the location of the offices is detrimental to their prosperity. A careful examination of the following list of business establishments will convince the average citizen of the necessity which formerly existed of our removing from our former location to one more centrally located.

Following are a few of the principal business houses, hotels, etc., with whom this office has done business the past year: Heath & Milligan Manufacturing Co., Dolese & Shepard, contractors; W. C. Ritchie Paper Box Manufacturing Co., William R. Manierre, central warehouses; Michael Welter, general produce commission house; Paul E. Berger Manufacturing Co., Edward Hines Lumber Co., John Claney Lumber Co.; A. H. Vials Manufacturing Co., Needham Water Works Co., A. E. Berry, Borden's Condensed Milk Co., Carpenter Steel Co., Illinois Malleable Iron Co., H. D. Baeder Plating and Polishing Co., Haisler Bros. & Co., D. H. Preston Coal Co., Reynolds Coal Co., Metal Novelty Co., The Lion Fig and Date Co., Rosenmayer & Co.; Wm. W. Wall, bridge contractors; Fletcher hotel. D. D. Streeter, paving contractors; Roemheld & Gallery, Jackson & Corbett. Numerous others might be cited, but it is deemed unnecessary. That public confidence has been established must be very gratifying to all.

I would further recommend that sufficient clerical help be allowed this office so as to enable the superintendent to devote more of his time to soliciting business and publishing the facilities for furnishing help of all kinds. I am satisfied that we could cater to a higher class of employment if the employers could be brought to realize that these offices were not established solely to supply common laborers with work, but that they can furnish the highest class of employés with as much promptness and reliability as they can the common laborers.

I have frequently mingled with the business men of my district and called at their places of business. I have met with much encouragement, many promising to call upon us in future for their help. Therefore, I deem it advisable that a circular be mailed to every business house in the entire city at least once in each quarter. This circular might also include a statement from our weekly reports, showing what has been accomplished by these offices during the past and also what is being done daily.

This office continues as heretofore, to supply many of the leading families of the West Side with their domestics and other classes of help, many of whom have expressed themselves as much gratified that the State has established free employment offices in their midst.

Respectfully submitted,

S. P. REVERE,

Superintendent.

Expense Account of the West Side Office from October 1, 1900, to September 30, 1901.

Stenographer	$ 360 00	Telephone booth	$ 55 00
Janitor	360 00	Ice	18 83
Rent	495 00	Moving office, etc.	12 50
Telephone service	176 70	Clock rent	6 00
Janitor's supplies	19 16	Water tax	6 80
Gas	21 08	Rubber stamps	19 60
Towel supply	23 60	Furnace repairing	9 55
Postage and expressage	87 00	Office insurance	9 61
Fuel	112 85	Miscellaneous carpenter work, etc.	86 91
Office furniture	220 85		
Signs	50 50		$2,226 19
Advertising	75 00		

Table Showing the Character of Positions Applied for, both for Employment and for Help, the Number of Positions Secured, and the Number Remaining Unfilled.—West Side Office.

Number.	Character of Positions.	Applications for Employment.			Applications for Help.	
		Number Filed.	Number of Positions Secured.	Number Unfilled.	Number Filed.	Number Unfilled.
	Males.					
1	Agents	11	11	.....	11	.....
2	Any light work	1	.....	1	.....	.....
3	Attendants	1	1	.....	1	.....
4	Apprentices	37	3	34	6	3
5	Artists	1	.....	1	.....	.....
6	Baggagemen	1	.....	1	.....	.....
7	Bakers	12	9	3	11	2
8	Barbers	1	.....	1	.....	.....
9	Barnmen	7	3	4	3	.....
10	Bartenders	11	1	10	4	3
11	Bicycle workers	1	.....	1	.....	.....
12	Blacksmiths	4	.....	4	9	9
13	Blacksmith helpers	6	3	3	6	3
14	Bookbinders	3	.....	3	.....	.....
15	Bookkeepers	14	.....	14	.....	.....
16	Boys, bell	5	.....	5	.....	.....

West Side Office—Continued.

Number.	Character of Positions.	Applications for Employeent.			Applications for Help.	
		Number Filed.	Number of Positions Secured.	Number Unfilled.	Number Filed.	Number Unfilled.
17	Boys, delivery	22	5	17	5	.....
18	Boys, errand	1	1	.....	2	1
19	Boys, office	55	6	49	9	3
20	Brakemen	1	.....	1	.....	.....
21	Brass finishers	4	.....	4	1	1
22	Brass polishers	2	.....	2	.....	.....
23	Brickmakers	4	4	.....	4	.....
24	Brickpackers	9	.....	9	9	9
25	Bridge builders	2	.....	2	.....	.....
26	Buffers	4	1	3	1	.....
27	Butchers	8	3	5	3	.....
28	Butlers	1	.....	1	.....	.....
29	Cabinet makers	3	2	1	2	.....
30	Calkers	.....	.....	.....	1	1
31	Canvassers	5	5	.....	15	10
32	Carpet layers	1	1	.....	1	.....
33	Carpenters	38	17	21	44	27
34	Carriage and wagon washers	8	8	.....	8	.....
35	Checkers	5	.....	5	.....	.....
36	Cleaners, harness	3	3	.....	3	.....
37	Clerks, delivery	2	1	1	1	.....
38	Clerks, hotel	7	.....	7	.....	.....
39	Clerks, shipping	32	1	31	1	.....
40	Clerks, not stated	71	.....	71	.....	.....
41	Coachmen	13	4	9	8	4
42	Coal passers	2	1	1	1	.....
43	Coal miners	.....	.....	.....	50	50
44	Collectors	20	.....	20	.....	.....
45	Chippers of iron	2	1	1	1	.....
46	Compositors	1	.....	1	.....	.....
47	Cooks	33	17	16	26	9
48	Coopers	1	.....	1	.....	.....
49	Conductors	1	.....	1	.....	.....
50	Cutters of waists	1	.....	1	.....	.....
51	Coremakers	1	.....	1	.....	.....
52	Decorators	1	.....	1	.....	.....
53	Dishwashers	16	13	3	15	2
54	Drill pressmen	7	.....	7	.....	.....
55	Druggists	1	.....	1	.....	.....
56	Electricians	14	.....	14	1	1
57	Elevatormen	24	4	20	4	.....
58	Engineers	44	3	41	4	1
59	Factory hands	249	131	118	148	17
60	Farmers	.....	.....	.....	.....	.....
61	Farm hands	159	130	29	168	38
62	Firemen	47	3	44	7	4
63	Florists	1	.....	1	.....	.....
64	Foremen	4	1	3	1	.....
65	Foundrymen	1	.....	1	.....	.....
66	Furnace tenders	2	.....	2	.....	.....
67	Freighthouse men	1	.....	1	.....	.....
68	Gardeners	1	1	.....	2	1
69	Gasfitters	2	.....	2	.....	.....
70	Grain shovelers	35	35	.....	35	.....
71	Horse trainers	1	.....	1	.....	.....
72	Hostlers	33	22	11	35	13
73	Housemen	113	65	48	76	11
74	Ice helpers	5	2	3	5	3
75	Ironworkers (sheet)	1	1	.....	2	1
76	Ironworkers	1	1	.....	2	1
77	Janitors	94	25	69	34	9
78	Kitchen work	.....	.....	.....	1	1
79	Laborers	1,919	1,695	224	2,022	327
80	Laborers, railroad	218	218	.....	222	4
81	Lathe hands	7	.....	7	.....	.....
82	Lathers	1	1	.....	2	1
83	Laundrymen	3	.....	3	.....	.....
84	Machine hands	32	1	31	1	.....
85	Machinists	76	8	68	23	15
86	Machinists' helpers	7	.....	7	.....	.....
87	Mail order help	1	.....	1	.....	.....

West Side Office—Continued.

Number	Character of Positions.	Applications for Employment.			Applications for Help.	
		Number Filed.	Number of Positions Secured.	Number Unfilled.	Number Filed.	Number Unfilled.
88	Metal workers	1	.....	1	.....	.....
89	Millwrights	1	.....	1	.....	.....
90	Molders	5	3	2	3	.....
91	Nurses	3	.....	3	1	1
92	Packers	11	3	8	4	1
93	Painters	30	4	26	6	2
94	Pantrymen	1	.....	1	.....	.....
95	Patternmakers	2	1	1	2	1
96	Peddlers, milk	4	3	1	3	.....
97	Photographers	1	.....	1	.....	.....
98	Piano finishers	1	.....	1	.....	.....
99	Plumbers	1	.....	1	.....	.....
100	Polishers, metal	8	1	7	1	.....
101	Polishers, not stated	5	2	3	2	.....
102	Porters	52	26	26	32	6
103	Pressers	3	.....	3	.....	.....
104	Printers	2	.....	2	.....	.....
105	Punch press hands	5	.....	5	.....	.....
106	Rodmen	1	.....	1	.....	.....
107	Salesmen	78	8	70	8	.....
108	Screw machine hands	6	.....	6	.....	.....
109	Shoemakers	1	1	.....	1	.....
110	Stair builders	.....	.....	.....	1	1
111	Steamfitters	6	.....	6	.....	.....
112	Stenographers	2	.....	2	1	1
113	Stovemen	1	.....	1	.....	.....
114	Tailors	1	.....	1	.....	.....
115	Tanners	1	.....	1	.....	.....
116	Teamsters	234	149	85	216	67
117	Timekeepers	2	.....	2	.....	.....
118	Tinsmiths	1	.....	1	3	3
119	Toolmakers	3	.....	3	.....	.....
120	Truckmen	6	.....	6	.....	.....
121	Ushers	1	.....	1	.....	.....
122	Upholsterers	1	.....	1	.....	.....
123	Vise hands	1	.....	1	.....	.....
124	Waiters	9	2	7	8	6
125	Warehouseman	1	.....	1	.....	.....
126	Watchmen	61	2	59	2	.....
127	Wholesale men	26	.....	26	1	1
128	Window washers	12	10	2	11	1
129	Wood finishers	1	.....	1	.....	.....
130	Wood workers	7	1	6	4	3
131	Yardmen	4	3	1	3	.....
	Totals	4,203	2,691	1,512	3,370	679
	Previous applications	.....	600	600	.....	600
	Totals	4,203	3,291	912	3,370	79
	Females.					
1	Attendants	7	.....	7	.....	.....
2	Bakers	1	1	.....	1	.....
3	Bookkeepers	1	.....	1	.....	.....
4	Bottle labelers	.....	.....	.....	3	3
5	Canvassers	7	7	.....	11	4
6	Cash girls	1	.....	1	.....	.....
7	Cashiers	6	.....	6	.....	.....
8	Clerks	19	1	18	2	1
9	Chambermaids	108	94	14	98	4
10	Companions	4	.....	4	.....	.....
11	Cooks	139	121	18	136	15
12	Dayworkers	204	100	104	101	1
13	Diningroom help	134	125	9	139	14
14	Dishwashers	81	70	11	76	6
15	Domestics	842	842	.....	1,045	203
16	Dressmakers	3	1	2	1	.....
17	Factory work	101	97	4	120	23
18	Governesses	2	.....	2	.....	.....

West Side Office.—Concluded.

Number.	Character of Positions.	Applications for Employment.			Applications for Help.	
		Number Filed.	Number of Positions Secured.	Number Unfilled.	Number Filed.	Number Unfilled.
19	Hotel help	1	.....	1	.....	.....
20	Housekeepers	94	32	62	35	3
21	Janitresses	3	2	1	5	3
22	Kitchen help	92	86	6	89	3
23	Laundresses	63	63	.....	83	20
24	Matrons	1	.....	1	.....	.....
25	Milliners	1	.....	1	.....	.....
26	Nurses	74	60	14	62	2
27	Office work	42	.....	42	.....	.....
28	Pantry work	16	11	5	13	2
29	Photographers	1	.....	1	.....	.....
30	Paint cleaners	2	1	1	2	1
31	Scrubwomen	5	4	1	4	.....
32	Seamstresses	20	15	5	17	2
33	Second work	63	46	17	52	6
34	Stenographers	11	.....	11	.....	.....
35	Waitresses	81	80	1	87	7
	Totals	2,230	1,859	371	2,182	323
	Previous applications	.....	60	60	.....	60
	Totals	2,230	1,919	311	2,182	263

REPORT OF PEORIA OFFICE.

PEORIA, ILL., October 1, 1901.

HON. DAVID ROSS, *Secretary Bureau Labor Statistics, Springfield, Ill.:*

DEAR SIR—Pursuant to section 6 of an act creating free employment offices in this State, I herewith submit to you my first annual report, covering the time from July 1 to October 1, 1901.

Judging from the short experience we have had I am impressed with the fact that free employment offices are a great benefit to the citizens who employ help, as well as to those seeking work.

Our office is patronized by the best class of citizens of our city, county and surrounding country. We frequently have calls for help from towns 75 to 100 miles from Peoria, and in most cases we have been able to furnish the help called for. It is also gratifying to know that the applications for help coming into our office are not confined to common labor, but include the higher class of skilled labor.

I find that the appropriation set apart for advertising purposes has been of substantial benefit to me in presenting to the public the objects and needs of this office.

The following report will give in detail the work of our office from July 1 to October 1, 1901.

Respectfully submitted,

EDWARD E. WALKER,
Superintendent.

Table showing the Character of Positions Applied for, both for Employment and for Help, the Number of Positions Secured, and the Number Remaining Unfilled in the Peoria Office—Three Months.

Number.	Character of Position.	Applications for Employment.			Applications for Help.	
		Number filed.	Number of positions secured.	Number unfilled.	Number filed.	Number unfilled.
	Males.					
1	Agents	3	1	2	1	.....
2	Apprentices	14	2	12	2	.....
3	Bakers	10	3	7	4	1
4	Bartenders	1	.....	1	.....	.....
5	Blacksmiths	8	3	5	3	.....
6	Boilermakers	1	.....	1	1	1
7	Boilermakers' helpers	12	12	.....	16	4
8	Bookkeepers	22	2	20	2	.....
9	Boys	57	33	24	33	.....
10	Boys, bell	21	21	.....	21	.....
11	Boys, cash	12	9	3	9	.....
12	Boys, delivery	17	2	15	2	.....
13	Boys, errand	8	1	7	1	.....
14	Boys, office	21	9	12	9	.....
15	Brakemen	5	.....	5	.....	.....
16	Butchers	8	.....	8	.....	.....
17	Butlers	2	.....	2	.....	.....
18	Cabinetmakers	8	6	2	9	3
19	Canvassers	9	8	1	8	.....
20	Carpenters	41	37	4	46	9
21	Cigarmakers	1	.....	1	.....	.....
22	Clerks, bill	21	1	20	1	.....
23	Clerks, drug	4	1	3	1	.....
24	Clerks, dry goods	9	.....	9	.....	.....
25	Clerks, grocery	17	2	15	2	.....
26	Clerks, hotel	4	.....	4	.....	.....
27	Clerks, shipping	11	1	10	1	.....
28	Clerks and salesmen	42	3	39	3	.....
29	Clerks, not stated	27	1	26	1	.....
30	Coachmen	15	4	11	4	.....
31	Coal miners	2	1	1	2	1
32	Collectors	24	2	22	2	.....
33	Companions	1	1	.....	1	.....
34	Cooks	23	17	6	17	.....
35	Conductors	5	5	.....	8	3
36	Dishwashers	19	14	5	14	.....
37	Drill pressmen	3	.....	3	.....	.....
38	Drivers	15	4	11	4	.....
39	Engineers	9	1	8	1	.....
40	Factory hands	22	4	18	4	.....
41	Farm hands	38	24	14	24	.....
42	Firemen	14	1	13	1	.....
43	Hostlers	23	10	13	11	1
44	Housemen	6	6	.....	6	.....
45	Janitors	23	4	19	4	.....
46	Laborers	672	474	198	526	52
47	Laborers, railroad	27	27	.....	78	51
48	Laundrymen	1	.....	1	.....	.....
49	Machinists	38	12	26	12	.....
50	Machinist helpers	3	.....	3	.....	.....
51	Meat cutters and slaughterers	2	.....	2	.....	.....
52	Millwrights	4	.....	4	.....	.....
53	Molders	5	4	1	7	3
54	Nurses	2	.....	2	.....	.....
55	Packers	2	2	.....	2	.....
56	Painters	13	.....	13	.....	.....
57	Panwashers	4	4	.....	4	.....
58	Pharmacists	1	.....	1	.....	.....
59	Piano stringers	1	.....	1	.....	.....
60	Plumbers	1	1	.....	1	.....
61	Plumbers helpers	1	1	.....	1	.....
62	Porters	17	6	11	6	.....
63	Pressmen	2	2	.....	2	.....
64	Printers	2	.....	2	.....	.....

Peoria Office—Continued.

Number.	Character of Positions.	Applications for Employment.			Applications for Help.	
		Number Filed.	Number of Positions Secured.	Number Unfilled.	Number Filed.	Number Unfilled.
65	Salesmen	37	11	26	12	1
66	Shovelers	4	4		4	
67	Shovelers, steam	2	2		2	
68	Shop work	8		8		
69	Solicitors	15	3	12	3	
70	Steamfitters	5	1	4	1	
71	Stenographers	5	2	3	2	
....	Stock keepers				1	1
72	Stone masons	3	2	1	2	
73	Teamsters	74	48	26	65	17
74	Telegraphers	1		1		
75	Waiters	19	11	8	12	1
76	Watchmen	34		34		
77	Window dressers	1		1		
78	Wood shapers	1		1	1	1
79	Wood workers	4		4		
80	Yardmen	2	2		2	
81	Miscellaneous, not classified	6	2	4	3	1
	Total males	1,677	877	800	1,028	151
	Females.					
1	Apprentices	2		2		
2	Bakers	3	2	1	2	
3	Bookkeepers	6	2	4	2	
4	Canvassers	5	7		13	6
5	Care for rooms	1		1		
6	Carnival work	2		2		
7	Clerks	50	3	47	3	
8	Chambermaids	28	13	15	13	
9	Collectors	4		4		
10	Cooks	30	30		35	5
11	Copyists	1		1		
12	Dayworkers	28	4	24	5	1
13	Demonstrators	1		1		
14	Diningroom help	27	23	4	36	13
15	Dishwashers	16	16		18	2
16	Domestics	216	178	32	246	68
17	Factory work	40	7	33	7	
18	Housekeepers	35	9	26	19	10
19	Laundresses	7	4	3	6	2
20	Nurses	11	1	10	4	3
21	Nurse, girls	7	4	3	4	
22	Office work	23	7	16	7	
23	Pantry work		1		1	
24	Pastry cooks	1	1		1	
25	Remodeler				1	1
26	Restaurant work	10	1	9	1	
27	Scrubwomen	2		2	1	1
28	Seamstresses	6	6		7	1
29	Second work	28	16	12	16	
30	Stenographers	32	8	24	9	1
31	Telephone girls	1	1		7	6
32	Typewriters	1		1		
33	Vegetable cleaners	1	3		3	
34	Washerwomen	5	6		6	
35	Yeast makers	1		1		
	Total females	631	353	278	473	120
	Total males	1,677	877	800	1,028	151
	Grand total	2,308	1,230	1,078	1,501	271

Table Showing the Age Periods of Applicants for Employment—By Occupations—Peoria Office.

Number.	Name of Occupation.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not reported.
	Males.							
1	Agents	.....	.....	1	2	.....	.....	.....
2	Apprentices	14	.....	.....	.....	.....	.....	.....
3	Bakers	.....	3	5	2	.....	.....	.....
4	Bartenders	.....	1	.....	.....	.....	.....	.....
5	Blacksmiths	.....	5	3	.....	.....	.....	.....
6	Boiler makers	.....	.....	1	.....	.....	.....	.....
7	Boiler maker's helpers	.....	9	1	.....	.....	.....	.....
8	Bookkeepers	.....	10	6	5	1	.....	.....
9	Boys	57	.....	.....	.....	.....	.....	.....
10	Boys, bell	21	.....	.....	.....	.....	.....	.....
11	Boys, cash	12	.....	.....	.....	.....	.....	.....
12	Bays, delivery	17	.....	.....	.....	.....	.....	.....
13	Boys, errand	8	.....	.....	.....	.....	.....	.....
14	Boys, office	21	.....	.....	.....	.....	.....	.....
15	Brakeman	.....	5	.....	.....	.....	.....	.....
16	Butchers	.....	2	3	2	1	.....	.....
17	Butlers	.....	1	1	.....	.....	.....	.....
18	Cabinet makers	.....	1	4	2	1	.....	.....
19	Canvassers	.....	2	2	3	2	.....	.....
20	Carpenters	.....	3	17	12	7	2	.....
21	Cigar makers	.....	1	.....	.....	.....	.....	.....
22	Clerks, bill	17	4	.....	.....	.....	.....	.....
23	Clerks, drug	.....	1	2	1	.....	.....	.....
24	Clerks, dry goods	7	2	.....	.....	.....	.....	.....
25	Clerks, grocery	15	2	.....	.....	.....	.....	.....
26	Clerks, hotel	.....	2	2	.....	.....	.....	.....
27	Clerks, shipping	.....	8	3	.....	.....	.....	.....
28	Clerks and salesman	21	17	2	2	.....	.....	.....
29	Clerks, not stated	17	8	2	.....	.....	.....	.....
30	Coachmen	.....	7	5	2	1	.....	.....
31	Coal miners	.....	2	.....	.....	.....	.....	.....
32	Collectors	4	9	5	3	1	1	1
33	Companions	.....	.....	1	.....	.....	.....	.....
34	Cooks	2	11	6	3	1	.....	.....
35	Conductors	.....	5	.....	.....	.....	.....	.....
36	Dishwashers	11	6	2	.....	.....	.....	.....
37	Drill pressmen	.....	2	1	.....	.....	.....	.....
38	Drivers	9	4	2	.....	.....	.....	.....
39	Engineers	.....	1	6	1	1	.....	.....
40	Factory hands	18	3	1	.....	.....	.....	.....
41	Farm hands	8	19	9	2	.....	.....	.....
42	Firemen	.....	7	5	2	.....	.....	.....
43	Hostlers	3	10	5	3	1	.....	1
44	Housemen	.....	4	2	.....	.....	.....	.....
45	Janitors	3	4	4	6	5	1	.....
46	Laborers	67	360	168	44	19	12	2
47	Laborers, railroad	5	7	5	2	.....	.....	.....
48	Laundrymen	.....	1	.....	.....	.....	.....	.....
49	Machinists	.....	3	11	17	5	1	1
50	Machinist's helper	1	2	.....	.....	.....	.....	.....
51	Meat cutters and slaughters	.....	.....	.....	1	1	.....	.....
52	Millwrights	.....	.....	.....	2	1	1	.....
53	Molders	.....	1	3	1	.....	.....	.....
54	Nurses	.....	.....	1	1	.....	.....	.....
55	Packers	.....	.....	1	1	.....	.....	.....
56	Painters	.....	3	7	2	1	.....	.....
57	Pan washer	1	.....	1	.....	1	.....	.....
58	Pharmacist	.....	.....	1	.....	.....	.....	.....
59	Piano stringer	.....	.....	1	.....	.....	.....	.....
60	Plumbers	.....	.....	1	.....	.....	.....	.....
61	Plumber helper	.....	1	.....	.....	.....	.....	.....
62	Porters	2	7	6	2	.....	.....	.....
63	Pressmen	.....	1	1	.....	.....	.....	.....
64	Printers	.....	.....	1	1	.....	.....	.....
65	Salesmen	.....	12	9	8	5	2	1
66	Shovelers	.....	.....	2	2	.....	.....	.....
67	Shovelers, steam	.....	.....	.....	1	.....	.....	.....
68	Show work	.....	2	6	.....	.....	.....	.....
69	Solicitors	.....	1	7	4	2	1	.....
70	Steam fitters	.....	1	3	1	.....	.....	.....

Peoria Office—Continued.

Number.	Name of Occupation.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not reported.
71	Stenographers	3	2	.....	.....	.....	.....	.....
72	Stone masons	.....	.....	2	1	.....	.....	.....
73	Teamsters	11	21	24	9	5	3	1
74	Telegraphers	1	.....	.....	.....	.....	.....	.....
75	Waiters	5	9	4	1	.....	.....	.....
76	Watchmen	.....	3	5	18	11	9	1
77	Window dressers	.....	.....	1	.....	.....	.....	.....
78	Wood shaper	.....	.....	1	.....	.....	.....	.....
79	Wood workers	.....	.....	2	2	.....	.....	.....
80	Yardmen	.....	1	.....	.....	.....	.....	.....
81	Miscellaneous, not classified	1	2	2	.....	1	.....	.....
	Total—males	382	620	387	173	74	33	8
	Females.							
1	Apprentices	2	.....	.....	.....	.....	.....	.....
2	Bakers	.....	3	.....	.....	.....	.....	.....
3	Bookkeepers	4	2	.....	.....	.....	.....	.....
4	Canvassers	1	3	.....	1	.....	.....	.....
5	Carnival work	.....	.....	2	.....	.....	.....	.....
6	Clerks	25	14	5	4	.....	.....	.....
7	Clerical	2	.....	.....	.....	.....	.....	.....
8	Chambermaids	10	8	8	2	.....	.....	.....
9	Collecting	2	2	.....	.....	.....	.....	.....
10	Cooks	3	6	8	7	3	.....	3
11	Copyists	1	.....	.....	.....	.....	.....	.....
12	Dayworkers	5	5	6	10	.....	2	.....
13	Demonstrators	1	.....	.....	.....	.....	.....	.....
14	Dining-room help	16	5	6	.....	.....	.....	.....
15	Dishwashers	7	2	3	3	1	.....	.....
16	Domestics	90	99	9	9	5	.....	4
17	Factory work	14	10	8	8	.....	.....	.....
18	Housekeepers	1	10	8	5	7	2	2
19	Janitresses	.....	1	.....	.....	.....	.....	.....
20	Laundresses	2	3	2	.....	.....	.....	.....
21	Nurse girl	4	3	.....	.....	.....	.....	.....
22	Nurses	1	3	3	2	1	.....	1
23	Office work	10	9	4	.....	.....	.....	.....
24	Pastry cook	.....	.....	1	.....	.....	.....	.....
25	Restaurant work	4	3	2	1	.....	.....	.....
26	Scrubwomen	.....	.....	2	.....	.....	.....	.....
27	Seamstresses	2	3	1	.....	.....	.....	.....
28	Second work	7	15	6	.....	.....	.....	.....
29	Stenographers	14	8	8	2	.....	.....	.....
30	Telphone girls	.....	1	.....	.....	.....	.....	.....
31	Typewriters	.....	.....	1	.....	.....	.....	.....
32	Washerwomen	.....	.....	2	1	2	.....	.....
33	Vegetable cleaner	.....	.....	1	.....	.....	.....	.....
34	Yeast maker	.....	.....	.....	.....	1	.....	.....
	Total—females	228	218	96	55	20	4	10

Table Showing the Conjugal and other Conditions of Applicants —Peoria Office.

Number	Name of Occupation.	Conjugal Conditions.			Number members trades union.	Number days idle.	Number willing to work out of city.
		Number married.	Number single	Number of dependent children.			
	Males.						
1	Agents	1	2	.....	.....	84	.....
2	Apprentices	.....	14	.....	.....	47	5
3	Bakers	4	6	3	1	17	8
4	Bartenders	1	.....	.....	.....	60	1
5	Blacksmiths	3	5	4	.....	21	4
6	Boiler makers	1	.....	2	.....	14	.....
7	Boiler maker's helpers	3	7	2	.....	12	.....
8	Bookkeepers	5	17	.....	.....	97	7
9	Boys	.....	57	.....	.....	58	2
10	Boys—bell	.....	21	.....	.....	47	1
11	Boys—cash	.....	12	.....	.....	.....	4
12	Boys—delivery	.....	17	.....	.....	30	1
12	Boys—errand	.....	8	.....	.....	90	.....
14	Boys—office	.....	21	.....	.....	141	2
15	Brakemen	2	3	1	.....	61	3
16	Butchers	7	1	9	.....	27	1
17	Butlers	1	1	.....	.....	68	.....
18	Cabinet makers	7	1	11	.....	.....	.....
19	Canvassers	7	2	9	.....	27	2
20	Carpenters	22	19	37	3	4	23
21	Cigar makers	.....	1	.....	.....	14	.....
22	Clerks—bill	2	19	3	.....	120	9
23	Clerks—drug	3	1	1	.....	160	1
24	Clerks—dry goods	1	8	.....	.....	42	2
25	Clerks—grocery	.....	17	.....	.....	27	7
26	Clerks—hotel	2	2	1	.....	85	.....
27	Clerks—shipping	4	7	5	.....	72	5
28	Clerks and salesmen	6	36	9	1	90	14
29	Clerks—not stated	4	23	7	1	104	5
30	Coachmen	9	6	4	1	74	2
31	Coal miners	2	.....	7	.....	30	2
32	Collectors	11	13	18	1	185	7
33	Companions	.....	1	.....	.....	30	.....
34	Cooks	5	18	8	.....	16	18
35	Conductors	.....	5	.....	.....	10	1
36	Dishwashers	3	16	4	.....	38	2
37	Drill pressmen	2	1	5	.....	56	1
38	Drivers	4	11	7	.....	94	.....
39	Engineers	7	2	13	1	175	8
40	Factory hands	2	20	1	1	74	5
41	Farm hands	5	33	9	.....	28	28
42	Firemen	5	9	11	1	45	8
43	Hostlers	6	17	5	1	55	8
44	Housemen	2	4	1	.....	9	.....
45	Janitors	9	14	7	.....	122	5
46	Laborers	168	504	173	10	16	567
47	Laborers—railroad	10	9	12	.....	.....	2
48	Laundrymen	.....	1	.....	.....	.....	1
49	Machinists	26	12	31	1	51	16
50	Machinist helpers	.....	3	.....	.....	48	1
51	Meat cutters and slaughterers	1	1	2	.....	98	2
52	Millwrights	3	1	5	.....	18	1
53	Molders	2	3	3	1	.....	.....
54	Nurses	1	1	.....	.....	20	.....
55	Packers	.....	2	.....	.....	.....	.....
56	Painters	8	5	5	2	18	13
57	Panwashers	.....	3	.....	.....	.....	.....
58	Pharmacists	1	.....	.....	.....	60	.....
59	Piano stringers	.....	1	.....	.....	15	.....
60	Plumbers	.....	1	.....	1	.....	.....
61	Plumbers helpers	.....	1	.....	.....	.....	.....
62	Porters	6	11	2	.....	69	3
63	Pressmen	.....	2	.....	.....	.....	.....
64	Printers	1	1	.....	.....	42	.....
65	Salesmen	12	25	9	.....	123	24
66	Shovelers	4	.....	5	.....	.....	.....

Peoria Office—Continued.

Number.	Name of Occupation.	Conjugal Conditions.			Number members trades union.	Number days idle.	Number willing to work out of city.
		Number married.	Number single.	Number of dependent children.			
67	Shovelers, steam	.....	1	.....	.....	.....	.....
68	Shop work	7	1	11	.....	36	2
69	Solicitors	8	7	6	1	92	4
70	Steamfitters	2	3	4	.....	21	3
71	Stenographers	.....	5	.....	.....	66	5
72	Stone masons	2	1	3	.....	.....	1
73	Teamsters	27	47	37	1	18	34
74	Telegraphers	.....	1	.....	.....	60	1
75	Waiters	4	15	1	.....	12	9
76	Watchmen	38	9	35	1	208	6
77	Window dressers	.....	1	.....	.....	28	.....
78	Wood shaper	1	.....	.....	.....	7	.....
79	Wood workers	3	1	5	.....	15	1
80	Yardmen	.....	1	.....	.....	.....	.....
81	Miscellaneous, not classified	2	4	3	.....	.....	.....
	Total males	495	1,182	556	30	3,811	898
	Females.						
1	Apprentices	.....	2	.....	.....	.....	.....
2	Bakers	1	2	3	.....	.....	1
3	Bookkeepers	.....	6	.....	.....	.....	2
4	Canvassers	3	2	4	.....	.....	3
5	Carnival work	2	.....	5	.....	.....	.....
6	Clerical	.....	2	.....	.....	.....	.....
7	Clerks	12	36	.....	.....	.....	.....
8	Chambermaids	10	18	7	.....	.....	5
9	Collectors	2	2	4	.....	.....	.....
10	Cooks	20	10	4	.....	.....	8
11	Copyists	.....	1	.....	.....	.....	.....
12	Dayworkers	21	7	7	.....	.....	.....
13	Demonstrators	.....	1	.....	.....	.....	1
14	Diningroom help	4	24	.....	.....	.....	8
15	Dishwashers	8	8	2	.....	.....	.....
16	Domestics	20	196	.....	.....	.....	15
17	Factory work	10	30	5	.....	.....	.....
18	Housekeepers	30	5	4	.....	.....	7
19	Janitress	.....	1	.....	.....	.....	.....
20	Laundresses	4	3	.....	.....	.....	.....
21	Nurse girls	.....	7	.....	.....	.....	.....
22	Nurses	8	3	3	.....	.....	6
23	Office work	3	20	.....	.....	.....	.....
24	Pastry cooks	1	.....	.....	.....	.....	.....
25	Restaurant work	3	7	6	.....	.....	.....
26	Scrub women	2	.....	.....	.....	.....	.....
27	Seamstresses	4	2	3	.....	.....	.....
28	Second work	4	24	.....	.....	.....	6
29	Stenographers	.....	32	.....	.....	.....	6
30	Telephone girls	.....	1	.....	.....	.....	.....
31	Typewriters	.....	1	.....	.....	.....	.....
32	Vegetable cleaners	1	.....	.....	.....	.....	.....
33	Washerwoman	4	1	.....	.....	.....	.....
34	Yeastmakers	1	.....	.....	.....	.....	.....
	Total females	177	454	57	.....	.....	68

Table Showing Average Wages Paid in Peoria to Applicants Securing Positions—By Occupations.

Character of Occupations.	Average Wages.		
	Per day.	Per week.	Per month.
Males.			
Agents		$ 6 00	
Apprentices		3 25	
Blacksmiths	$2 25		
Boilermaker helpers	1 50		
Bookkeepers			$45 00
Boys		3 50	
Boys, bell		3 00	
Boys, cash		2 50	
Boys, delivery		4 00	
Boys, errand		2 25	
Boys, office		3 00	
Cabinet makers	3 50		
Canvassers	Commission		
Carpenters	$2 50		
Clerks, bill		8 00	
Clerks, drug			40 00
Clerks, grocery		8 50	
Clerks, shipping		9 00	
Clerks and salesmen		7 50	
Clerks, not stated		8 75	
Coachmen			20 00
Coal miners	4 00		
Collectors		8 50	
Companion			20 00
Cooks		7 00	
Conductors		11 50	
Dishwashers			18 00
Drivers	1 25		
Engineer			60 00
Factory		5 74	
Farm hands			19 50
Firemen	1 50		
Hostlers			20 00
Housemen			18 00
Janitors		8 25	
Laborers	1 65		
Laborers, railroad	1 75		
Machinists	2 50		
Molders	3 50		
Packers		9 00	
Panwashers			15 00
Plumbers	3 50		
Plumbers helpers		8 00	
Porters		4 50	
Pressmen		9 50	
Salesmen		7 75	
Shovelers	1 50		
Shovelers, steam	2 00		
Steam fitters	3 00		
Stenographers			30 00
Stone masons	3 50		
Teamsters			25 00
Waiters		6 00	
Yardmen			15 00
Females.			
Bakers		$4 00	
Bookkeepers			$40 00
Canvassers	Commission		
Clerks		3 00	
Chambermaids			13 00
Cooks		4 00	
Day work	$1 50		
Diningroom girls		3 00	
Dishwashers		3 00	
Domestics		3 50	
Factory		3 00	
Housekeepers		5 00	

Peoria Office—Continued.

Character of Occupations.	Average Wages.		
	Per day.	Per week.	Per month.
Laundress		$6 00	
Nurses		5 00	
Nurse girls		1 50	
Office work		3 00	
Pantry work			$14 00
Pastry cook			12 00
Restaurant work		3 00	
Seamstress		5 00	
Second work		3 50	
Stenographers		8 00	
Telephone girls		4 00	
Vegetable cleaners			14 00
Washerwomen	$1 50		

Expense Account Peoria Free Employment Office for the Fiscal Year Ending October 1, 1901.

Office furniture	$355 01	Extra office help	$11 80
Typewriter and stand	94 50	Extra stenographer	12 50
Rent	120 00	Janitor service	8 30
Signs and lettering	16 00	Ice	3 50
Telephone	20 25	General office supplies	81 82
Electric light	1 87		
Postage and express	40 70		
Advertising	61 32		$827 57

Table showing the Nationality of Applicants for Employment—Peoria Office.

Number.	Occupations.	American.	Canadian.	Danish.	English.	French.	German and Hollanders.	Irish.	Norwegian.	Polish.	Russian.	Scotch.	Swede.	Swiss.	Miscellaneous.	Totals.
	Males.															
1	Agents	3	..	..	..	..	..	..	..	..	..	..	..	..	..	3
2	Apprentices	14	..	..	..	..	..	..	..	..	..	..	..	..	..	14
3	Bakers	7	..	..	..	..	2	..	..	..	..	..	..	1	..	10
4	Bartenders	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1
5	Blacksmiths	7	..	..	..	..	..	..	1	..	..	..	..	..	..	8
6	Boilermakers	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
7	Boilermakers' helpers	10	..	..	..	..	..	..	..	..	..	..	..	..	..	10
8	Bookkeepers	20	..	..	2	..	..	..	..	..	..	..	..	..	..	22
9	Boys	52	..	..	..	..	1	..	..	..	4	..	..	..	..	57
10	Boys, bell	20	..	..	..	..	1	..	..	..	..	..	..	..	..	21
11	Boys, cash	12	..	..	..	..	..	..	..	..	..	..	..	..	..	12
12	Boys, delivery	17	..	..	..	..	..	..	..	..	..	..	..	..	..	17
13	Boys, errand	8	..	..	..	..	..	..	..	..	..	..	..	..	..	8
14	Boys, office	21	..	..	..	..	..	..	..	..	..	..	..	..	..	21
15	Brakemen	4	..	..	..	..	..	..	..	..	..	..	1	..	..	5
16	Butchers	6	..	..	..	..	1	..	..	..	..	..	..	1	..	8
17	Butlers	..	1	..	..	..	..	..	..	..	..	..	..	..	1	2
18	Cabinetmakers	4	..	1	3	..	..	..	..	..	..	..	..	..	..	8
19	Canvassers	9	..	..	..	..	..	..	..	..	..	..	..	..	..	9
20	Carpenters	34	..	..	1	..	3	2	..	..	..	..	1	..	..	41
21	Cigarmakers	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
22	Clerks, bill	21	..	..	..	..	..	..	..	..	..	..	..	..	..	21

Peoria Office.—Continued.

Number.	Occupations.	American.	Canadian.	Danish.	English.	French.	German and Hollanders.	Irish.	Norwegian.	Polish.	Russian.	Scotch.	Swede.	Swiss.	Miscellaneous.	Totals.
23	Clerks, drug	4	..	..	..	..	..	..	..	..	..	..	..	..	..	4
24	Clerks, dry goods	9	..	..	..	..	..	..	..	..	..	..	..	..	..	9
25	Clerks, grocery	16	..	..	..	..	1	..	..	..	..	..	..	..	..	17
26	Clerks, hotel	4	..	..	..	..	..	..	..	..	..	..	..	..	..	4
27	Clerks, shipping	11	..	..	..	..	..	..	..	..	..	..	..	..	..	11
28	Clerks and salesmen	42	..	..	..	..	..	..	..	..	..	..	..	..	..	42
29	Clerks, not stated	26	..	..	..	..	1	..	..	..	..	..	..	..	..	27
30	Coachmen	7	1	..	1	..	3	1	..	..	..	..	..	1	1	15
31	Coal miners	2	..	..	..	..	..	..	..	..	..	..	..	..	..	2
32	Collectors	22	..	..	..	..	1	..	..	..	..	..	..	1	..	24
33	Companions	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
34	Cooks	20	..	..	1	..	..	..	..	..	..	..	..	1	1	23
35	Conductors	5	..	..	..	..	..	..	..	..	..	..	..	..	..	5
36	Dishwashers	16	..	..	1	..	1	1	..	..	..	..	..	..	..	19
37	Drill pressmen	3	..	..	..	..	..	..	..	..	..	..	..	..	..	3
38	Drivers	14	..	..	..	..	1	..	..	..	..	..	..	..	..	15
39	Engineers	8	..	..	1	..	..	..	..	..	..	..	..	..	..	9
40	Factory hands	20	..	..	..	..	1	..	..	..	..	..	..	1	..	22
41	Farm hands	37	..	..	..	..	1	..	..	..	..	..	..	..	..	38
42	Firemen	14	..	..	..	..	..	..	..	..	..	..	..	..	..	14
43	Hostlers	23	..	..	..	..	..	..	..	..	..	..	..	..	..	23
44	Housemen	6	..	..	..	..	..	..	..	..	..	..	..	..	..	6
45	Janitors	17	..	..	1	1	2	..	..	..	..	..	..	1	1	23
46	Laborers	599	4	..	7	..	43	5	..	1	..	4	4	5	672
47	Laborers, railroad	19	..	..	..	..	..	..	..	..	..	..	..	..	..	19
48	Laundrymen	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
49	Machinists' helpers	2	..	..	1	..	..	..	..	..	..	..	..	..	..	3
50	Machinists	35	..	..	..	1	..	..	..	..	..	1	1	..	..	38
51	Meat cutters and slaughterers	2	..	..	..	..	..	..	..	..	..	..	..	..	..	2
52	Millwrights	4	..	..	..	..	..	..	..	..	..	..	..	..	..	4
53	Molders	5	..	..	..	..	..	..	..	..	..	..	..	..	..	5
54	Nurses	2	..	..	..	..	..	..	..	..	..	..	..	..	..	2
55	Packers	2	..	..	..	..	..	..	..	..	..	..	..	..	..	2
56	Painters	12	..	..	1	..	..	..	..	..	..	..	..	..	..	13
57	Pan washers	3	..	..	..	..	..	..	..	..	..	..	..	..	..	3
58	Pharmacists	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
59	Piano stringers	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
60	Plumbers	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
61	Plumbers' helpers	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
62	Porters	10	..	..	1	..	1	..	..	..	..	..	..	..	5	17
63	Pressmen	2	..	..	..	..	..	..	..	..	..	..	..	..	..	2
64	Printers	2	..	..	..	..	..	..	..	..	..	..	..	..	..	2
65	Salesmen	36	..	..	..	..	1	..	..	..	..	..	..	..	..	37
66	Shovelers	4	..	..	..	..	..	..	..	..	..	..	..	..	..	4
67	Shovelers, steam	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
68	Shop work	8	..	..	..	..	..	..	..	..	..	..	..	..	..	8
69	Solicitors	14	..	..	..	..	1	..	..	..	..	..	..	..	..	15
70	Steamfitters	4	1	..	..	..	..	..	..	..	..	..	..	..	..	5
71	Stenographers	5	..	..	..	..	..	..	..	..	..	..	..	..	..	5
72	Stone masons	3	..	..	..	..	..	..	..	..	..	..	..	..	..	3
73	Teamsters	71	..	..	1	..	2	..	..	..	..	..	..	..	..	74
74	Telegraphers	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
75	Waiters	17	..	..	..	..	..	..	..	..	..	..	..	..	2	19
76	Watchmen	39	1	..	1	1	4	..	..	..	..	1	..	..	..	47
77	Window dressers	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
78	Wood shapers	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
79	Wood workers	4	..	..	..	..	..	..	..	..	..	..	..	..	..	4
80	Yardmen	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
81	Miscellaneous, not classified	3	..	..	1	..	1	..	..	..	..	..	..	1	..	6
	Totals	1,515	8	1	24	3	74	9	1	1	4	2	7	12	16	1,677

Peoria office—Continued.

Number.	Occupations.	American.	English.	German and Hollanders.	Irish.	Italian.	Swede.	Miscellaneous.	Totals.
	Females.								
1	Appreatices	2	.....	.....	.....	.....	.....	.....	2
2	Bakers	3	.....	.....	.....	.....	.....	.....	3
3	Bookkeepers	6	.....	.....	.....	.....	.....	.....	6
4	Canvassers	5	.....	.....	.....	.....	.....	.....	5
5	Carnival work	2	.....	.....	.....	.....	.....	.....	2
6	Clerical	2	.....	.....	.....	.....	.....	.....	2
7	Clerks	48	.....	.....	.....	.....	.....	.....	48
8	Collectors	4	.....	.....	.....	.....	.....	.....	4
9	Chambermaids	27	1	.....	.....	.....	.....	.....	28
10	Cooks	26	1	.....	1	.....	.....	2	30
11	Copyists	1	.....	.....	.....	.....	.....	.....	1
12	Dayworkers	26	.....	1	.....	.....	.....	1	28
13	Demonstrators	1	.....	.....	.....	.....	.....	.....	1
14	Diningroom help	25	.....	2	.....	.....	.....	.....	27
15	Dishwashers	12	.....	2	1	.....	.....	1	16
16	Domestics	182	4	15	11	.....	4	.....	216
17	Factory work	40	.....	.....	.....	.....	.....	.....	40
18	Housekeepers	32	.....	1	2	.....	.....	.....	35
19	Janitresses	1	.....	.....	.....	.....	.....	.....	1
20	Laundresses	5	.....	.....	2	.....	.....	.....	7
21	Nurse girl	7	.....	.....	.....	.....	.....	.....	7
22	Nurses	11	.....	.....	.....	.....	.....	.....	11
23	Office work	23	.....	.....	.....	.....	.....	.....	23
24	Pastry cook	1	.....	.....	.....	.....	.....	.....	1
25	Restaurant work	6	1	2	.....	1	.....	.....	10
26	Scrubwomen	2	.....	.....	.....	.....	.....	.....	2
27	Seamstresses	6	.....	.....	.....	.....	.....	.....	6
28	Second work	28	.....	.....	.....	.....	.....	.....	28
29	Stenographers	32	.....	.....	.....	.....	.....	.....	32
30	Telephone girls	1	.....	.....	.....	.....	.....	.....	1
31	Type writers	1	.....	.....	.....	.....	.....	.....	1
32	Vegetable cleaner	1	.....	.....	.....	.....	.....	.....	1
33	Washerwomen	5	.....	.....	.....	.....	.....	.....	5
34	Yeast maker	1	.....	.....	.....	.....	.....	.....	1
	Totals	575	7	23	17	1	4	4	631

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